



National Center for Science and
Engineering Statistics

Data Tables Report

Federal Funds for Research and Development: Fiscal Years 2024–25

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General Notes

These tables present the results of volume 74 (FYs 2024–25) of the Survey of Federal Funds for Research and Development. This annual census, completed by the federal agencies that conduct research and development (R&D) programs, is the primary source of information about federal funding for R&D in the United States. Actual data are collected for the fiscal year just completed; estimates are obtained for the current fiscal year.

The National Center for Science and Engineering Statistics has reviewed this product for unauthorized disclosure of confidential information and approved its release (NCSES-DRN26-001).

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Table 1. Federal obligations for research and development, by type of R&D, and for R&D plant: FYs 1951–2025

(Dollars in thousands)

Fiscal year	Total	Total R&D	Total research	Basic research	Applied research	Development	R&D plant
1951	1,851,571	1,521,527	NA	NA	NA	NA	330,044
1952	2,216,848	1,909,665	NA	120,945	NA	NA	307,183
1953	2,167,456	1,919,543	NA	115,997	NA	NA	247,913
1954	1,918,046	1,761,840	NA	116,033	NA	NA	156,206
1955	2,251,894	2,044,593	NA	130,068	NA	NA	207,301
1956	3,266,903	2,988,203	851,947	206,441	645,506	2,136,256	278,700
1957	4,389,237	3,932,001	924,547	262,348	662,199	3,007,454	457,236
1958	4,906,015	4,569,722	1,078,807	334,543	744,264	3,490,915	336,293
1959	7,122,610	6,693,510	1,340,253	465,981	874,272	5,353,257	429,100
1960	8,080,015	7,551,746	1,872,509	590,374	1,282,135	5,679,237	528,269
1961	9,607,023	9,058,623	2,477,944	814,513	1,663,431	6,580,679	548,400
1962	11,069,059	10,289,947	3,004,795	986,314	2,018,481	7,285,152	779,112
1963	13,662,879	12,494,611	3,507,903	1,151,753	2,356,150	8,986,708	1,168,268
1964	15,323,870	14,225,354	3,874,452	1,303,000	2,571,452	10,350,902	1,098,516
1965	15,745,852	14,614,249	4,247,230	1,435,469	2,811,761	10,367,019	1,131,603
1966	16,178,640	15,320,334	4,660,247	1,579,181	3,081,066	10,660,087	858,306
1967	17,149,186	16,529,099	4,631,390	1,845,847	2,785,543	11,897,709	620,087
1968	16,525,038	15,921,208	4,781,062	1,840,562	2,940,500	11,140,146	603,830
1969	16,309,900	15,640,888	4,644,890	1,944,773	2,700,117	10,995,998	669,012
1970	15,863,385	15,338,937	4,900,798	1,925,908	2,974,890	10,438,139	524,448
1971	16,153,756	15,542,512	5,123,171	1,980,141	3,143,030	10,419,341	611,244
1972	17,097,951	16,495,895	5,547,696	2,186,937	3,360,759	10,948,199	602,056
1973	17,574,486	16,800,153	5,581,429	2,232,006	3,349,423	11,218,724	774,333
1974	18,176,457	17,410,128	6,175,240	2,387,681	3,787,559	11,234,888	766,329
1975	19,859,548	19,038,818	6,729,708	2,588,427	4,141,281	12,309,110	820,730
1976	21,616,382	20,779,658	7,619,332	2,767,454	4,851,878	13,160,326	836,724
1977	24,817,577	23,450,377	8,514,115	3,258,640	5,255,475	14,936,262	1,367,200
1978	27,140,849	25,845,137	9,606,758	3,698,604	5,908,154	16,238,379	1,295,712
1979	29,620,597	28,145,142	10,535,005	4,192,665	6,342,340	17,610,137	1,475,455
1980	31,386,095	29,830,432	11,597,378	4,674,156	6,923,222	18,233,054	1,555,663
1981	34,589,634	33,103,924	12,212,780	5,041,295	7,171,485	20,891,144	1,485,710
1982	37,822,363	36,432,589	13,022,185	5,481,605	7,540,580	23,410,404	1,389,774
1983	40,009,032	38,711,537	14,253,525	6,260,131	7,993,394	24,458,012	1,297,495
1984	44,012,149	42,224,865	14,978,773	7,067,359	7,911,414	27,246,092	1,787,284
1985	50,180,369	48,359,565	16,133,421	7,818,682	8,314,739	32,226,144	1,820,804
1986	52,951,181	51,412,364	16,502,199	8,153,076	8,349,123	34,910,165	1,538,817
1987	57,099,656	55,253,693	17,940,521	8,942,425	8,998,096	37,313,172	1,845,963
1988	58,826,512	56,769,425	18,650,145	9,473,618	9,176,527	38,119,280	2,057,087
1989	63,571,605	61,406,484	20,765,531	10,602,011	10,163,520	40,640,953	2,165,121
1990	65,831,189	63,559,471	21,622,364	11,285,593	10,336,771	41,937,107	2,271,718
1991	64,147,951	61,295,152	23,968,377	12,170,794	11,797,583	37,326,775	2,852,799
1992	68,577,184	65,592,590	24,490,598	12,489,864	12,000,734	41,101,992	2,984,594
1993	70,414,697	67,314,025	26,890,497	13,399,121	13,491,376	40,423,528	3,100,672
1994	69,450,776	67,235,390	27,411,209	13,523,476	13,887,733	39,824,181	2,215,386
1995	70,442,935	68,186,798	28,434,396	13,877,031	14,557,365	39,752,402	2,256,137
1996	69,399,164	67,653,047	28,259,764	14,464,035	13,795,729	39,393,283	1,746,117
1997	71,753,430	69,826,779	29,365,289	14,941,892	14,423,397	40,461,490	1,926,651
1998	73,913,988	72,100,724	30,922,269	15,613,012	15,309,257	41,178,455	1,813,264
1999	77,386,368	75,340,622	33,527,514	17,443,653	16,083,861	41,813,108	2,045,746
2000	80,403,169	75,910,322	38,470,630	19,569,849	18,900,781	37,439,692	4,492,847
2001	88,562,350	84,492,522	44,713,736	21,958,136	22,755,600	39,778,786	4,069,828
2002	98,013,347	93,708,604	48,006,711	23,668,345	24,338,366	45,701,893	4,304,743
2003	107,794,188	103,527,670	51,071,843	24,751,441	26,320,402	52,455,827	4,266,518

Table 1. Federal obligations for research and development, by type of R&D, and for R&D plant: FYs 1951–2025

(Dollars in thousands)

Fiscal year	Total	Total R&D	Total research	Basic research	Applied research	Development	R&D plant
2004	116,068,604	112,074,452	53,357,811	26,120,663	27,237,148	58,716,641	3,994,152
2005	122,619,584	118,848,457	53,738,245	27,140,335	26,597,910	65,110,212	3,771,127
2006	123,854,731	121,729,949	53,535,650	26,584,592	26,951,058	68,194,299	2,124,782
2007	129,431,246	127,262,861	54,093,565	26,865,786	27,227,779	73,169,296	2,168,385
2008	129,049,945	127,106,084	53,893,678	27,153,966	26,739,712	73,212,406	1,943,861
2009	144,758,103	141,090,091	63,691,872	32,879,357	30,812,515	77,398,219	3,668,012
2010	146,967,800	140,354,521	63,727,973	31,795,342	31,932,631	76,626,548	6,613,279
2011	139,703,281	135,532,585	58,064,824	29,313,593	28,751,231	77,467,761	4,170,695
2012	140,670,243	138,524,568	61,986,310	30,958,893	31,027,417	76,538,258	2,145,676
2013	127,625,544	125,720,395	59,532,626	29,779,404	29,753,222	66,187,769	1,905,149
2014	132,778,962	130,561,320	63,191,428	31,587,903	31,603,525	67,369,892	2,217,642
2015	131,578,341	128,753,285	63,825,444	31,527,071	32,298,373	64,927,841	2,825,055
2016	118,273,784	115,832,794	67,104,649	32,292,659	34,811,990	48,728,145	2,440,989
2017	121,626,565	118,974,799	69,871,308	33,271,490	36,599,818	49,103,491	2,651,766
2018	133,277,540	129,424,802	74,587,573	36,195,128	38,392,445	54,837,230	3,852,737
2019	146,800,654	142,424,207	81,117,784	40,017,258	41,100,526	61,306,422	4,376,448
2020	173,552,852	167,402,781	85,304,757	41,546,622	43,758,135	82,098,024	6,150,070
2021	193,922,171	189,639,772	85,915,481	42,266,271	43,649,210	103,724,291	4,282,399
2022	196,639,146	190,465,815	93,831,619	45,413,681	48,417,937	96,634,196	6,173,332
2023	191,739,643	186,075,674	101,255,536	46,981,216	54,274,320	84,820,137	5,663,969
2024	199,454,939	194,242,643	99,555,831	47,493,585	52,062,246	94,686,812	5,212,296
2025 (preliminary)	198,702,866	194,055,664	95,240,517	45,361,068	49,879,449	98,815,147	4,647,202

NA = not available; agency did not provide data.

Note(s):

Because of rounding, detail may not add to total. The federal fiscal year cycle changed for FY 1977, from 1 July–30 June to the current 1 October–30 September cycle; no data were collected for the 3-month transition period of July–September 1976. FYs 2009 and 2010 obligations include additional funding provided by the American Recovery and Reinvestment Act of 2009. Beginning with FY 2016, the totals reported for development obligations represent a refinement to this category by more narrowly defining it to be "experimental development." Most notably, totals for development do not include the Department of Defense (DOD) Budget Activity 7 (Operational System Development) nor Budget Activity 8 (Software and Digital Technology Pilot Programs) obligations. Those funds, previously included in DOD's development obligation totals, support the development efforts to upgrade systems that have been fielded or have received approval for full-rate production and anticipate production funding in the current or subsequent fiscal year. Therefore, the data are not directly comparable with totals reported in previous years. FYs 2020, 2021, and 2022 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act).

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 2. Summary of federal obligations and outlays for research, experimental development, and R&D plant, by type of R&D, performer, and field of R&D: FYs 2023–25

(Dollars in millions)

Type of R&D, performer, and field	2023	2024	2025 (preliminary)	% change FY 2023–24	% change FY 2024–25 (preliminary)
Outlays for R&D and R&D plant	173,861	183,953	185,241	5.8	0.7
R&D	169,099	178,848	180,414	5.8	0.9
R&D plant	4,762	5,105	4,827	7.2	-5.4
Obligations for R&D and R&D plant	191,740	199,455	198,703	4.0	-0.4
R&D	186,076	194,243	194,056	4.4	-0.1
Performer					
Federal agencies ^a	43,700	51,072	55,387	16.9	8.5
FFRDCs	16,389	16,350	17,819	-0.2	9.0
Businesses	67,990	69,917	65,715	2.8	-6.0
Higher education ^b	45,018	44,407	42,683	-1.4	-3.9
Nonprofit organizations	11,507	10,604	10,967	-7.9	3.4
State and local governments	694	795	716	14.6	-9.9
Non-U.S. performers	778	1,098	769	41.2	-30.0
Research	101,256	99,556	95,241	-1.7	-4.3
Performer					
Federal agencies ^a	20,400	24,486	21,659	20.0	-11.5
FFRDCs	11,575	11,790	13,276	1.9	12.6
Businesses	17,149	13,003	11,583	-24.2	-10.9
Higher education ^b	41,780	40,503	39,136	-3.1	-3.4
Nonprofit organizations	9,220	8,640	8,625	-6.3	-0.2
State and local governments	585	639	522	9.4	-18.3
Non-U.S. performers	548	494	439	-9.8	-11.1
Field of R&D					
Computer and information sciences	5,136	6,664	5,088	29.8	-23.6
Geosciences, atmospheric sciences, and ocean sciences	5,884	5,693	5,854	-3.2	2.8
Life sciences	43,750	38,622	37,374	-11.7	-3.2
Mathematics and statistics	997	865	891	-13.2	3.0
Physical sciences	12,703	12,759	12,503	0.4	-2.0
Psychology	4,947	5,286	5,237	6.9	-0.9
Social sciences	2,679	3,138	3,053	17.1	-2.7
Engineering	15,670	17,551	16,345	12.0	-6.9
Other fields	9,491	8,978	8,895	-5.4	-0.9
Basic research	46,981	47,494	45,361	1.1	-4.5
Performer					
Federal agencies ^a	7,914	10,069	7,832	27.2	-22.2
FFRDCs	6,858	6,622	8,076	-3.4	22.0
Businesses	4,163	4,668	4,316	12.1	-7.5

Table 2. Summary of federal obligations and outlays for research, experimental development, and R&D plant, by type of R&D, performer, and field of R&D: FYs 2023–25

(Dollars in millions)

Type of R&D, performer, and field	2023	2024	2025 (preliminary)	% change FY 2023–24	% change FY 2024–25 (preliminary)
Higher education ^b	23,778	22,047	21,073	-7.3	-4.4
Nonprofit organizations	3,913	3,791	3,775	-3.1	-0.4
State and local governments	117	111	106	-5.4	-4.0
Non-U.S. performers	238	185	183	-22.0	-1.2
Field of R&D					
Computer and information sciences	2,342	3,893	2,179	66.2	-44.0
Geosciences, atmospheric sciences, and ocean sciences	3,661	3,494	3,577	-4.5	2.4
Life sciences	18,353	17,606	17,348	-4.1	-1.5
Mathematics and statistics	671	585	606	-12.7	3.5
Physical sciences	9,532	9,447	9,340	-0.9	-1.1
Psychology	2,513	2,661	2,627	5.9	-1.3
Social sciences	1,166	1,331	1,301	14.2	-2.3
Engineering	3,991	3,929	3,754	-1.5	-4.4
Other fields	4,753	4,547	4,629	-4.3	1.8
Applied research	54,274	52,062	49,879	-4.1	-4.2
Performer					
Federal agencies ^a	12,486	14,417	13,827	15.5	-4.1
FFRDCs	4,717	5,168	5,200	9.6	0.6
Businesses	12,985	8,335	7,267	-35.8	-12.8
Higher education ^b	18,002	18,456	18,063	2.5	-2.1
Nonprofit organizations	5,306	4,849	4,850	-8.6	0.0
State and local governments	467	529	416	13.1	-21.3
Non-U.S. performers	310	309	256	-0.5	-17.1
Field of R&D					
Computer and information sciences	2,793	2,771	2,909	-0.8	5.0
Geosciences, atmospheric sciences, and ocean sciences	2,223	2,199	2,277	-1.1	3.6
Life sciences	25,397	21,015	20,026	-17.3	-4.7
Mathematics and statistics	326	280	286	-14.1	2.0
Physical sciences	3,171	3,312	3,163	4.4	-4.5
Psychology	2,434	2,625	2,609	7.8	-0.6
Social sciences	1,513	1,807	1,752	19.4	-3.0
Engineering	11,679	13,622	12,591	16.6	-7.6
Other fields	4,738	4,431	4,266	-6.5	-3.7
Experimental development	84,820	94,687	98,815	11.6	4.4
Performer					
Federal agencies ^a	23,300	26,585	33,728	14.1	26.9
FFRDCs	4,814	4,561	4,543	-5.3	-0.4
Businesses	50,841	56,914	54,132	11.9	-4.9

Table 2. Summary of federal obligations and outlays for research, experimental development, and R&D plant, by type of R&D, performer, and field of R&D: FYs 2023–25

(Dollars in millions)

Type of R&D, performer, and field	2023	2024	2025 (preliminary)	% change FY 2023–24	% change FY 2024–25 (preliminary)
Higher education ^b	3,238	3,903	3,546	20.5	-9.1
Nonprofit organizations	2,288	1,963	2,342	-14.2	19.3
State and local governments	109	156	194	42.8	24.5
Non-U.S. performers	230	604	330	162.8	-45.4
Field of R&D					
Computer and information sciences	3,632	4,477	4,326	23.3	-3.4
Geosciences, atmospheric sciences, and ocean sciences	960	864	787	-10.0	-9.0
Life sciences	5,688	7,026	5,179	23.5	-26.3
Mathematics and statistics	282	293	295	4.2	0.4
Physical sciences	3,958	4,407	4,559	11.4	3.4
Psychology	448	453	452	1.1	-0.2
Social sciences	178	220	194	23.7	-11.7
Engineering	51,424	53,502	58,526	4.0	9.4
Other fields	18,251	23,444	24,498	28.5	4.5
R&D plant	5,664	5,212	4,647	-8.0	-10.8
Performer					
Federal agencies ^a	1,420	1,378	1,361	-3.0	-1.2
FFRDCs	2,570	2,364	2,274	-8.0	-3.8
Businesses	1,088	970	517	-10.9	-46.7
Higher education ^b	458	376	377	-17.9	0.1
Nonprofit organizations	114	117	113	2.8	-3.1
State and local governments	13	5	5	-65.0	3.4
Non-U.S. performers	*	2	1	1,573.5	-52.7

* = amount greater than \$0 but less than \$500,000.

FFRDC = federally funded research and development center.

^a Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, and actual federal performance.^b Higher education includes both public and private institutions as well as University Affiliated Research Centers.**Note(s):**Because of rounding, detail may not add to total. Percentages are computed using actual dollars reported. For additional notes associated with the taxonomy changes to the fields listed in the table, see [technical table A-3 at https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables).**Source(s):**

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 3. Federal obligations and outlays for research, experimental development, and R&D plant, by agency: FYs 2024–25

(Dollars in millions)

Agency	Obligations		Outlays	
	2024	2025 (preliminary)	2024	2025 (preliminary)
All agencies	199,455	198,703	183,953	185,241
Departments				
Department of Agriculture	3,631	3,355	3,483	3,270
Agricultural Marketing Service	29	18	14	9
Agricultural Research Service	1,925	1,851	1,902	1,764
Animal and Plant Health Inspection Service	77	72	43	42
Economic Research Service	91	91	91	91
Forest Service	320	291	330	338
National Agricultural Statistics Service	8	9	8	9
National Institute of Food and Agriculture	1,090	1,000	1,000	997
Natural Resources Conservation Service	92	23	96	21
Department of Commerce	3,576	10,515	3,034	5,175
Census Bureau	360	360	360	360
National Institute of Standards and Technology	1,449	8,100	1,132	2,782
National Oceanic and Atmospheric Administration	1,619	1,637	1,398	1,615
National Telecommunications and Information Administration	148	418	145	418
Department of Defense	98,091	93,584	85,835	88,088
Defense Advanced Research Projects Agency	4,177	4,404	4,214	4,146
Defense Health Agency	3,215	2,509	3,054	2,786
Department of the Air Force	30,428	30,407	25,088	28,137
Air Force	20,970	19,748	16,068	18,333
Space Force	9,458	10,658	9,020	9,803
Department of the Army	15,507	14,470	10,145	13,060
Department of the Navy	24,039	22,531	23,467	21,951
Other defense agencies	20,725	19,264	19,867	18,008
Department of Education	457	457	361	423
Department of Energy	19,808	18,763	17,548	17,461
Advanced Research Projects Agency—Energy	496	460	391	400
Electricity Delivery and Energy Reliability	164	178	132	162
Energy Efficiency and Renewable Energy	2,532	2,532	1,630	1,508
Environmental Management	33	39	39	39
Fossil Energy	1,509	1,185	928	1,037
National Nuclear Security Administration	5,495	5,183	5,479	5,267
Defense Programs	3,718	3,464	3,729	3,548
Naval Nuclear Propulsion Program	1,213	1,153	1,186	1,153
Office of Defense Nuclear Nonproliferation	564	566	564	566
Nuclear Energy	1,272	1,034	1,129	964
Office of Cybersecurity, Energy Security, and Emergency Response	104	138	49	71
Office of Science	8,203	8,015	7,771	8,015
Department of Health and Human Services	49,183	48,106	49,044	46,358
Administration for Children and Families	11	11	13	12
Administration for Community Living	113	112	113	112
Advanced Research Projects Agency for Health	1,039	1,097	460	216
Agency for Healthcare Research and Quality	374	374	374	374
Agency for Toxic Substances and Disease Registry	3	3	3	3
Biomedical Advanced Research and Development Authority	1,491	819	1,491	819
Centers for Disease Control and Prevention	384	369	172	158
Centers for Medicare and Medicaid Services	20	20	4	5
Food and Drug Administration	737	671	700	637
Health Resources and Services Administration	89	83	86	80
National Institutes of Health	44,888	44,509	45,594	43,904
Office of the Secretary of Health and Human Services	35	37	35	37

Table 3. Federal obligations and outlays for research, experimental development, and R&D plant, by agency: FYs 2024–25

(Dollars in millions)

Agency	Obligations		Outlays	
	2024	2025 (preliminary)	2024	2025 (preliminary)
Office of the Assistant Secretary for Planning and Evaluation	35	37	35	37
Department of Homeland Security	540	359	553	491
Coast Guard	8	10	11	10
Countering Weapons of Mass Destruction Office	52	15	60	40
Cybersecurity and Infrastructure Security Agency	0	1	0	1
Science and Technology Directorate	461	315	442	417
Secret Service	4	7	4	4
Transportation Security Administration	14	12	36	19
Department of the Interior	503	455	503	456
Bureau of Indian Affairs	5	5	5	5
Bureau of Land Management	17	15	17	15
Bureau of Reclamation	33	34	33	34
Bureau of Safety and Environmental Enforcement	15	12	16	14
Fish and Wildlife Service	48	6	48	6
Geological Survey	378	377	378	377
National Park Service	6	6	5	5
Department of Justice	152	154	38	39
Bureau of Prisons	9	8	9	8
Federal Bureau of Investigation	16	21	16	21
Office of Justice Programs	127	125	13	10
Department of Labor	2	2	1	1
Employee Benefits Security Administration	2	2	1	1
Department of State	34	0	34	0
Department of Transportation	1,229	1,238	979	1,069
Federal Aviation Administration	424	437	347	357
Federal Highway Administration	438	431	388	344
Federal Motor Carrier Safety Administration	16	10	8	13
Federal Railroad Administration	44	30	36	49
Federal Transit Administration	51	7	24	22
National Highway Traffic Safety Administration	108	123	79	84
Office of the Secretary of Transportation	129	178	80	179
Pipeline and Hazardous Materials Safety Administration	21	22	17	20
Department of the Treasury	35	64	35	64
Bureau of Engraving and Printing	35	64	35	64
Mint	*	*	*	*
Department of Veterans Affairs	1,869	1,880	1,764	1,800
Other agencies				
Agency for Global Media	9	0	9	0
Agency for International Development	252	0	252	0
Appalachian Regional Commission	1	*	1	1
Consumer Product Safety Commission	*	*	*	*
Environmental Protection Agency	540	538	540	538
Federal Trade Commission	1	*	1	*
National Aeronautics and Space Administration	10,967	10,962	11,471	10,868
National Science Foundation	7,503	7,314	7,405	8,168
Nuclear Regulatory Commission	73	41	60	55
Patient-Centered Outcomes Research Trust Fund	605	583	607	585
Postal Service	5	3	5	3
RESTORE Act Centers of Excellence Research Grants Program	7	5	6	6
Smithsonian Institution	168	182	168	182
Social Security Administration	97	58	97	58
Tennessee Valley Authority	117	85	117	85

* = amount greater than \$0 but less than \$500,000.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations or outlays in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 4. Federal obligations and outlays for research and experimental development, by agency: FYs 2024–25

(Dollars in millions)

Agency	Obligations		Outlays	
	2024	2025 (preliminary)	2024	2025 (preliminary)
All agencies	194,243	194,056	178,848	180,414
Departments				
Department of Agriculture	3,493	3,294	3,372	3,144
Agricultural Marketing Service	29	18	14	9
Agricultural Research Service	1,787	1,790	1,792	1,638
Animal and Plant Health Inspection Service	77	72	43	42
Economic Research Service	91	91	91	91
Forest Service	320	291	330	338
National Agricultural Statistics Service	8	9	8	9
National Institute of Food and Agriculture	1,090	1,000	1,000	997
Natural Resources Conservation Service	91	23	95	20
Department of Commerce	2,665	9,848	2,320	4,487
Census Bureau	360	360	360	360
National Institute of Standards and Technology	1,314	8,001	994	2,658
National Oceanic and Atmospheric Administration	966	1,072	936	1,050
National Telecommunications and Information Administration	26	415	31	418
Department of Defense	97,856	93,353	85,588	87,854
Defense Advanced Research Projects Agency	4,177	4,404	4,214	4,146
Defense Health Agency	3,215	2,509	3,054	2,786
Department of the Air Force	30,252	30,234	24,902	27,961
Air Force	20,794	19,576	15,882	18,159
Space Force	9,458	10,658	9,020	9,803
Department of the Army	15,507	14,470	10,145	13,060
Department of the Navy	23,990	22,481	23,417	21,901
Other defense agencies	20,716	19,255	19,855	18,000
Department of Education	457	457	361	423
Department of Energy	16,893	16,031	14,519	14,804
Advanced Research Projects Agency—Energy	496	460	391	400
Electricity Delivery and Energy Reliability	164	178	132	162
Energy Efficiency and Renewable Energy	2,474	2,474	1,572	1,450
Environmental Management	33	39	39	39
Fossil Energy	1,484	1,160	902	1,010
National Nuclear Security Administration	4,483	4,213	4,327	4,301
Defense Programs	3,128	2,908	3,110	2,996
Naval Nuclear Propulsion Program	958	906	820	906
Office of Defense Nuclear Nonproliferation	397	400	397	400
Nuclear Energy	941	691	906	692
Office of Cybersecurity, Energy Security, and Emergency Response	104	138	49	71
Office of Science	6,713	6,680	6,201	6,680
Department of Health and Human Services	48,793	47,719	48,681	45,921
Administration for Children and Families	11	11	13	12
Administration for Community Living	113	112	113	112
Advanced Research Projects Agency for Health	1,039	1,097	460	216
Agency for Healthcare Research and Quality	374	374	374	374
Agency for Toxic Substances and Disease Registry	3	3	3	3
Biomedical Advanced Research and Development Authority	1,489	819	1,489	819
Centers for Disease Control and Prevention	384	369	172	158
Centers for Medicare and Medicaid Services	20	20	4	5
Food and Drug Administration	733	667	656	597
Health Resources and Services Administration	86	80	83	77
National Institutes of Health	44,508	44,129	45,281	43,511
Office of the Secretary of Health and Human Services	35	37	35	37

Table 4. Federal obligations and outlays for research and experimental development, by agency: FYs 2024–25

(Dollars in millions)

Agency	Obligations		Outlays	
	2024	2025 (preliminary)	2024	2025 (preliminary)
Office of the Assistant Secretary for Planning and Evaluation	35	37	35	37
Department of Homeland Security	536	353	532	460
Coast Guard	8	10	11	10
Countering Weapons of Mass Destruction Office	52	15	60	40
Cybersecurity and Infrastructure Security Agency	0	1	0	1
Science and Technology Directorate	459	311	422	387
Secret Service	4	6	4	4
Transportation Security Administration	13	11	35	18
Department of the Interior	494	446	494	447
Bureau of Indian Affairs	5	5	5	5
Bureau of Land Management	17	15	17	15
Bureau of Reclamation	30	32	30	32
Bureau of Safety and Environmental Enforcement	9	6	11	8
Fish and Wildlife Service	48	6	48	6
Geological Survey	378	377	378	377
National Park Service	6	6	5	5
Department of Justice	152	154	38	39
Bureau of Prisons	9	8	9	8
Federal Bureau of Investigation	16	21	16	21
Office of Justice Programs	127	125	13	10
Department of Labor	2	2	1	1
Employee Benefits Security Administration	2	2	1	1
Department of State	34	0	34	0
Department of Transportation	1,192	1,201	930	1,011
Federal Aviation Administration	396	408	305	311
Federal Highway Administration	437	431	387	344
Federal Motor Carrier Safety Administration	16	10	8	13
Federal Railroad Administration	35	22	30	37
Federal Transit Administration	51	7	24	22
National Highway Traffic Safety Administration	108	123	79	84
Office of the Secretary of Transportation	129	178	80	179
Pipeline and Hazardous Materials Safety Administration	21	22	17	20
Department of the Treasury	35	64	35	64
Bureau of Engraving and Printing	35	64	35	64
Mint	*	*	*	*
Department of Veterans Affairs	1,869	1,880	1,764	1,800
Other agencies				
Agency for Global Media	9	0	9	0
Agency for International Development	252	0	252	0
Appalachian Regional Commission	1	*	1	1
Consumer Product Safety Commission	*	*	*	*
Environmental Protection Agency	535	535	535	535
Federal Trade Commission	1	*	1	*
National Aeronautics and Space Administration	10,905	10,936	11,397	10,813
National Science Foundation	6,995	6,825	6,921	7,638
Nuclear Regulatory Commission	73	41	60	55
Patient-Centered Outcomes Research Trust Fund	605	583	607	585
Postal Service	5	3	5	3
RESTORE Act Centers of Excellence Research Grants Program	7	5	6	6
Smithsonian Institution	168	182	168	182
Social Security Administration	97	58	97	58
Tennessee Valley Authority	117	85	117	85

* = amount greater than \$0 but less than \$500,000.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations or outlays in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 5. Federal obligations for research and experimental development, by agency and type of R&D: FY 2024

(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Experimental development		
				Total	Advanced technology	Major systems
All agencies	194,242,643	47,493,585	52,062,246	94,686,812	13,657,764	71,011,667
Departments						
Department of Agriculture	3,493,309	1,555,396	1,643,281	294,633	na	na
Agricultural Marketing Service	29,256	0	14,628	14,628	na	na
Agricultural Research Service	1,787,448	893,724	714,979	178,745	na	na
Animal and Plant Health Inspection Service	76,667	11,486	22,331	42,849	na	na
Economic Research Service	90,612	0	90,612	0	na	na
Forest Service	319,739	108,711	156,672	54,356	na	na
National Agricultural Statistics Service	8,334	0	4,584	3,750	na	na
National Institute of Food and Agriculture	1,090,042	541,111	548,930	0	na	na
Natural Resources Conservation Service	91,212	363	90,545	305	na	na
Department of Commerce	2,664,969	355,423	1,578,983	730,562	na	na
Census Bureau	359,951	0	194,832	165,119	na	na
National Institute of Standards and Technology	1,313,554	355,423	617,003	341,127	na	na
National Oceanic and Atmospheric Administration	965,783	0	763,197	202,586	na	na
National Telecommunications and Information Administration	25,681	0	3,952	21,729	na	na
Department of Defense	97,856,147	4,692,643	8,494,073	84,669,431	13,657,764	71,011,667
Defense Advanced Research Projects Agency	4,176,753	352,404	1,457,228	2,367,121	2,116,120	251,001
Defense Health Agency	3,214,735	49,239	550,510	2,614,986	2,194,973	420,013
Department of the Air Force	30,252,161	2,715,829	2,357,143	25,179,189	1,703,564	23,475,625
Air Force	20,793,852	2,684,428	2,357,143	15,752,281	1,281,507	14,470,774
Space Force	9,458,310	31,402	0	9,426,908	422,057	9,004,851
Department of the Army	15,507,167	524,159	1,525,156	13,457,852	2,217,611	11,240,241
Department of the Navy	23,989,698	684,855	1,362,151	21,942,693	1,329,137	20,613,555
Other defense agencies	20,715,632	366,157	1,241,885	19,107,590	4,096,359	15,011,231
Department of Education	456,546	28,226	323,055	105,265	na	na
Department of Energy	16,893,433	6,681,089	7,154,199	3,058,144	na	na
Advanced Research Projects Agency—Energy	496,421	0	248,211	248,211	na	na
Electricity Delivery and Energy Reliability	163,974	15,247	67,647	81,080	na	na
Energy Efficiency and Renewable Energy	2,474,000	0	1,496,665	977,335	na	na
Environmental Management	32,712	0	10,795	21,917	na	na
Fossil Energy	1,484,208	0	1,484,208	0	na	na
National Nuclear Security Administration	4,483,275	127,872	2,837,070	1,518,334	na	na
Defense Programs	3,127,561	0	2,530,526	597,035	na	na
Naval Nuclear Propulsion Program	958,270	0	150,900	807,370	na	na
Office of Defense Nuclear Nonproliferation	397,443	127,872	155,644	113,928	na	na
Nuclear Energy	941,074	0	729,806	211,268	na	na
Office of Cybersecurity, Energy Security, and Emergency Response	104,361	0	104,361	0	na	na
Office of Science	6,713,409	6,537,971	175,438	0	na	na
Department of Health and Human Services	48,793,488	22,794,933	25,942,267	56,287	na	na
Administration for Children and Families	10,682	0	10,682	0	na	na
Administration for Community Living	112,987	0	112,987	0	na	na
Advanced Research Projects Agency for Health	1,039,001	0	1,039,001	0	na	na
Agency for Healthcare Research and Quality	373,500	0	337,445	36,055	na	na
Agency for Toxic Substances and Disease Registry	2,798	0	2,798	0	na	na

Table 5. Federal obligations for research and experimental development, by agency and type of R&D: FY 2024

(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Experimental development		
				Total	Advanced technology	Major systems
Biomedical Advanced Research and Development Authority	1,488,789	0	1,488,789	0	na	na
Centers for Disease Control and Prevention	383,750	84,553	278,964	20,232	na	na
Centers for Medicare and Medicaid Services	19,991	19,991	0	0	na	na
Food and Drug Administration	732,711	0	732,711	0	na	na
Health Resources and Services Administration	86,113	34,305	51,808	0	na	na
National Institutes of Health	44,508,166	22,656,084	21,852,081	0	na	na
Office of the Secretary of Health and Human Services	35,000	0	35,000	0	na	na
Office of the Assistant Secretary for Planning and Evaluation	35,000	0	35,000	0	na	na
Department of Homeland Security	535,931	72,292	164,521	299,118	na	na
Coast Guard	7,882	0	7,439	443	na	na
Countering Weapons of Mass Destruction Office	52,128	12,834	24,778	14,517	na	na
Science and Technology Directorate	458,692	59,208	132,305	267,179	na	na
Secret Service	3,810	250	0	3,560	na	na
Transportation Security Administration	13,419	0	0	13,419	na	na
Department of the Interior	494,093	43,857	412,933	37,302	na	na
Bureau of Indian Affairs	5,000	0	5,000	0	na	na
Bureau of Land Management	17,081	2,036	14,718	327	na	na
Bureau of Reclamation	30,365	0	26,297	4,068	na	na
Bureau of Safety and Environmental Enforcement	9,157	1,267	7,449	442	na	na
Fish and Wildlife Service	48,000	0	48,000	0	na	na
Geological Survey	378,125	40,554	305,105	32,466	na	na
National Park Service	6,365	0	6,365	0	na	na
Department of Justice	152,214	14,069	109,374	28,772	na	na
Bureau of Prisons	8,874	0	1,960	6,914	na	na
Federal Bureau of Investigation	16,475	0	0	16,475	na	na
Office of Justice Programs	126,866	14,069	107,414	5,383	na	na
Department of Labor	2,354	0	2,354	0	na	na
Employee Benefits Security Administration	2,354	0	2,354	0	na	na
Department of State	34,388	1,146	21,779	11,463	na	na
Department of Transportation	1,191,794	127,043	754,609	310,142	na	na
Federal Aviation Administration	396,201	0	205,194	191,007	na	na
Federal Highway Administration	437,125	0	394,977	42,148	na	na
Federal Motor Carrier Safety Administration	15,629	0	10,853	4,775	na	na
Federal Railroad Administration	35,108	0	28,788	6,319	na	na
Federal Transit Administration	50,677	0	37,501	13,176	na	na
National Highway Traffic Safety Administration	107,687	44,482	63,205	0	na	na
Office of the Secretary of Transportation	128,530	75,813	0	52,716	na	na
Pipeline and Hazardous Materials Safety Administration	20,839	6,748	14,090	0	na	na
Department of the Treasury	35,148	0	121	35,027	na	na
Bureau of Engraving and Printing	35,027	0	0	35,027	na	na
Mint	121	0	121	0	na	na
Department of Veterans Affairs	1,868,978	795,235	1,037,952	35,791	na	na
Other agencies						
Agency for Global Media	9,449	0	9,449	0	na	na
Agency for International Development	251,678	2,909	196,662	52,106	na	na

Table 5. Federal obligations for research and experimental development, by agency and type of R&D: FY 2024

(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Experimental development		
				Total	Advanced technology	Major systems
Appalachian Regional Commission	1,190	0	1,190	0	na	na
Consumer Product Safety Commission	47	0	47	0	na	na
Environmental Protection Agency	535,300	0	414,880	120,420	na	na
Federal Trade Commission	834	0	834	0	na	na
National Aeronautics and Space Administration	10,904,550	4,356,036	1,805,165	4,743,349	na	na
National Science Foundation	6,995,225	5,804,939	1,190,286	0	na	na
Nuclear Regulatory Commission	72,668	0	72,668	0	na	na
Patient-Centered Outcomes Research Trust Fund	605,450	0	605,450	0	na	na
Postal Service	4,918	0	4,918	0	na	na
RESTORE Act Centers of Excellence Research Grants Program	6,556	0	6,556	0	na	na
Smithsonian Institution	168,350	168,350	0	0	na	na
Social Security Administration	96,639	0	96,639	0	na	na
Tennessee Valley Authority	117,000	0	18,000	99,000	na	na

na = not applicable; data were not collected at this level of detail for this agency or subagency.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://ncses.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://ncses.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 6. Preliminary federal obligations for research and experimental development, by agency and type of R&D: FY 2025

(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Experimental development		
				Total	Advanced technology	Major systems
All agencies	194,055,664	45,361,068	49,879,449	98,815,147	11,503,829	70,609,720
Departments						
Department of Agriculture	3,293,995	1,499,495	1,510,094	284,406	na	na
Agricultural Marketing Service	18,398	0	9,199	9,199	na	na
Agricultural Research Service	1,790,000	895,000	716,000	179,000	na	na
Animal and Plant Health Inspection Service	72,328	8,792	20,453	43,083	na	na
Economic Research Service	90,612	0	90,612	0	na	na
Forest Service	291,000	99,289	142,677	49,034	na	na
National Agricultural Statistics Service	9,090	0	5,000	4,091	na	na
National Institute of Food and Agriculture	1,000,000	496,414	503,586	0	na	na
Natural Resources Conservation Service	22,566	0	22,566	0	na	na
Department of Commerce	9,848,169	298,057	1,591,253	7,958,860	na	na
Census Bureau	359,951	0	194,832	165,119	na	na
National Institute of Standards and Technology	8,000,822	298,057	518,721	7,184,044	na	na
National Oceanic and Atmospheric Administration	1,072,149	0	872,879	199,270	na	na
National Telecommunications and Information Administration	415,247	0	4,820	410,426	na	na
Department of Defense	93,352,986	3,013,668	8,225,769	82,113,549	11,503,829	70,609,720
Defense Advanced Research Projects Agency	4,403,986	398,429	1,702,867	2,302,690	2,120,906	181,784
Defense Health Agency	2,509,065	39,771	470,533	1,998,761	1,638,884	359,877
Department of the Air Force	30,233,891	995,532	2,443,731	26,794,628	1,758,141	25,036,487
Air Force	19,576,152	957,562	2,443,731	16,174,860	1,331,197	14,843,663
Space Force	10,657,738	37,970	0	10,619,768	426,944	10,192,824
Department of the Army	14,469,601	494,190	1,109,495	12,865,916	1,509,493	11,356,423
Department of the Navy	22,481,116	660,401	1,307,665	20,513,050	1,323,651	19,189,399
Other defense agencies	19,255,327	425,346	1,191,478	17,638,504	3,152,754	14,485,749
Department of Education	456,546	28,226	323,055	105,265	na	na
Department of Energy	16,031,439	6,814,866	6,548,697	2,667,875	na	na
Advanced Research Projects Agency—Energy	460,000	0	345,000	115,000	na	na
Electricity Delivery and Energy Reliability	178,165	12,753	72,746	92,666	na	na
Energy Efficiency and Renewable Energy	2,474,000	0	1,496,665	977,335	na	na
Environmental Management	38,569	0	12,728	25,841	na	na
Fossil Energy	1,159,690	0	1,159,690	0	na	na
National Nuclear Security Administration	4,212,860	122,601	2,818,840	1,271,419	na	na
Defense Programs	2,907,731	0	2,535,483	372,248	na	na
Naval Nuclear Propulsion Program	905,624	0	125,414	780,210	na	na
Office of Defense Nuclear Nonproliferation	399,504	122,601	157,943	118,961	na	na
Nuclear Energy	690,607	0	504,992	185,614	na	na
Office of Cybersecurity, Energy Security, and Emergency Response	138,036	0	138,036	0	na	na
Office of Science	6,679,513	6,679,513	0	0	na	na
Department of Health and Human Services	47,718,849	22,458,606	25,208,015	52,228	na	na
Administration for Children and Families	10,733	0	10,733	0	na	na
Administration for Community Living	112,185	0	112,185	0	na	na
Advanced Research Projects Agency for Health	1,097,000	0	1,097,000	0	na	na
Agency for Healthcare Research and Quality	373,500	0	337,445	36,055	na	na
Agency for Toxic Substances and Disease Registry	2,798	0	2,798	0	na	na

Table 6. Preliminary federal obligations for research and experimental development, by agency and type of R&D: FY 2025

(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Experimental development		
				Total	Advanced technology	Major systems
Biomedical Advanced Research and Development Authority	819,408	0	819,408	0	na	na
Centers for Disease Control and Prevention	369,153	61,529	291,451	16,173	na	na
Centers for Medicare and Medicaid Services	20,391	20,391	0	0	na	na
Food and Drug Administration	667,181	0	667,181	0	na	na
Health Resources and Services Administration	79,889	34,000	45,889	0	na	na
National Institutes of Health	44,129,381	22,342,687	21,786,695	0	na	na
Office of the Secretary of Health and Human Services	37,229	0	37,229	0	na	na
Office of the Assistant Secretary for Planning and Evaluation	37,229	0	37,229	0	na	na
Department of Homeland Security	353,046	44,580	180,988	127,479	na	na
Coast Guard	9,744	0	9,196	548	na	na
Countering Weapons of Mass Destruction Office	15,068	3,680	4,598	6,790	na	na
Cybersecurity and Infrastructure Security Agency	793	0	793	0	na	na
Science and Technology Directorate	311,000	40,000	165,000	106,000	na	na
Secret Service	5,734	900	1,400	3,434	na	na
Transportation Security Administration	10,707	0	0	10,707	na	na
Department of the Interior	446,217	42,924	361,284	42,008	na	na
Bureau of Indian Affairs	5,000	0	5,000	0	na	na
Bureau of Land Management	14,860	1,699	10,800	2,361	na	na
Bureau of Reclamation	31,615	0	26,547	5,068	na	na
Bureau of Safety and Environmental Enforcement	5,613	817	2,565	2,230	na	na
Fish and Wildlife Service	6,000	0	6,000	0	na	na
Geological Survey	376,764	40,408	304,007	32,349	na	na
National Park Service	6,365	0	6,365	0	na	na
Department of Justice	154,043	14,007	106,667	33,368	na	na
Bureau of Prisons	7,888	0	1,805	6,083	na	na
Federal Bureau of Investigation	20,849	0	0	20,849	na	na
Office of Justice Programs	125,306	14,007	104,862	6,437	na	na
Department of Labor	1,857	0	1,857	0	na	na
Employee Benefits Security Administration	1,857	0	1,857	0	na	na
Department of Transportation	1,201,433	143,162	710,643	347,629	na	na
Federal Aviation Administration	408,087	0	211,350	196,737	na	na
Federal Highway Administration	430,735	793	390,424	39,518	na	na
Federal Motor Carrier Safety Administration	10,482	0	7,553	2,928	na	na
Federal Railroad Administration	22,000	0	15,400	6,600	na	na
Federal Transit Administration	7,100	0	5,254	1,846	na	na
National Highway Traffic Safety Administration	123,007	57,725	65,282	0	na	na
Office of the Secretary of Transportation	178,107	78,107	0	100,000	na	na
Pipeline and Hazardous Materials Safety Administration	21,916	6,537	15,379	0	na	na
Department of the Treasury	64,495	0	83	64,412	na	na
Bureau of Engraving and Printing	64,412	0	0	64,412	na	na
Mint	83	0	83	0	na	na
Department of Veterans Affairs	1,880,000	800,000	1,044,000	36,000	na	na
Other agencies						
Appalachian Regional Commission	237	0	237	0	na	na

Table 6. Preliminary federal obligations for research and experimental development, by agency and type of R&D: FY 2025

(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Experimental development		
				Total	Advanced technology	Major systems
Consumer Product Safety Commission	1	0	1	0	na	na
Environmental Protection Agency	534,900	0	415,027	119,873	na	na
Federal Trade Commission	347	0	347	0	na	na
National Aeronautics and Space Administration	10,936,174	4,413,316	1,724,663	4,798,195	na	na
National Science Foundation	6,825,141	5,608,162	1,216,979	0	na	na
Nuclear Regulatory Commission	40,667	0	40,667	0	na	na
Patient-Centered Outcomes Research Trust Fund	582,864	0	582,864	0	na	na
Postal Service	2,837	0	2,837	0	na	na
RESTORE Act Centers of Excellence Research Grants Program	4,783	0	4,783	0	na	na
Smithsonian Institution	182,000	182,000	0	0	na	na
Social Security Administration	57,641	0	57,641	0	na	na
Tennessee Valley Authority	85,000	0	21,000	64,000	na	na

na = not applicable; data were not collected at this level of detail for this agency or subagency.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://ncses.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://ncses.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 7. Federal obligations for research and experimental development, by agency and performer: FY 2024

(Dollars in millions)

Agency	Total R&D	Intramural		Extramural				Non-U.S. performers
		Federal agencies ^a	FFRDCs	United States and U.S. territories				
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
All agencies	194,243	51,072	16,350	69,917	44,407	10,604	795	1,098
Departments								
Department of Agriculture	3,493	2,000	0	48	1,336	67	33	10
Agricultural Marketing Service	29	0	0	0	8	1	20	0
Agricultural Research Service	1,787	1,502	0	0	253	23	*	9
Animal and Plant Health Inspection Service	77	41	0	2	27	4	3	0
Economic Research Service	91	90	0	0	*	1	0	0
Forest Service	320	275	0	1	35	2	7	*
National Agricultural Statistics Service	8	8	0	0	*	*	0	0
National Institute of Food and Agriculture	1,090	9	0	45	999	36	1	0
Natural Resources Conservation Service	91	76	0	*	15	*	*	0
Department of Commerce	2,665	1,961	23	91	559	23	7	1
Census Bureau	360	356	0	0	4	1	0	0
National Institute of Standards and Technology	1,314	1,050	23	51	176	10	3	*
National Oceanic and Atmospheric Administration	966	556	*	27	367	12	4	*
National Telecommunications and Information Administration	26	0	0	13	13	0	0	0
Department of Defense	97,856	30,574	3,139	56,084	5,036	2,372	15	637
Defense Advanced Research Projects Agency	4,177	298	141	2,916	653	146	0	22
Defense Health Agency	3,215	492	18	709	911	983	*	101
Department of the Air Force	30,252	9,092	707	18,960	1,037	378	7	71
Air Force	20,794	8,392	299	10,812	955	334	1	1
Space Force	9,458	700	407	8,148	82	44	7	71
Department of the Army	15,507	2,924	92	12,033	363	90	0	6
Department of the Navy	23,990	10,259	354	11,857	1,319	149	*	51
Other defense agencies	20,716	7,508	1,827	9,609	753	625	7	387
Department of Education	457	0	0	35	245	136	41	0
Department of Energy	16,893	1,725	9,964	2,759	2,137	172	134	3
Advanced Research Projects Agency—Energy	496	1	51	247	174	23	0	0
Electricity Delivery and Energy Reliability	164	1	139	19	2	3	1	0
Energy Efficiency and Renewable Energy	2,474	17	1,397	580	383	67	30	0
Environmental Management	33	*	23	6	4	0	0	0
Fossil Energy	1,484	981	106	0	275	51	70	1
National Nuclear Security Administration	4,483	442	2,785	1,235	20	0	0	0
Defense Programs	3,128	378	2,425	317	8	0	0	0

Table 7. Federal obligations for research and experimental development, by agency and performer: FY 2024

(Dollars in millions)

Agency	Total R&D	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
Naval Nuclear Propulsion Program	958	62	*	897	0	0	0	0
Office of Defense Nuclear Nonproliferation	397	3	361	22	13	0	0	0
Nuclear Energy	941	53	664	162	57	3	*	1
Office of Cybersecurity, Energy Security, and Emergency Response	104	*	44	12	31	17	0	0
Office of Science	6,713	230	4,753	498	1,191	7	34	*
Department of Health and Human Services	48,793	9,873	616	4,132	27,131	6,502	213	326
Administration for Children and Families	11	*	0	0	2	9	0	0
Administration for Community Living	113	0	0	4	76	32	1	0
Advanced Research Projects Agency for Health	1,039	34	33	347	555	64	0	6
Agency for Healthcare Research and Quality	374	83	0	144	116	30	*	0
Agency for Toxic Substances and Disease Registry	3	0	0	0	2	1	0	*
Biomedical Advanced Research and Development Authority	1,489	67	0	1,295	56	42	*	29
Centers for Disease Control and Prevention	384	67	0	14	201	32	54	16
Centers for Medicare and Medicaid Services	20	*	0	5	3	13	0	0
Food and Drug Administration	733	475	0	9	91	81	71	6
Health Resources and Services Administration	86	5	0	0	74	5	2	0
National Institutes of Health	44,508	9,140	584	2,289	25,956	6,186	84	269
Office of the Secretary of Health and Human Services	35	3	0	25	*	7	0	0
Office of the Assistant Secretary for Planning and Evaluation	35	3	0	25	*	7	0	0
Department of Homeland Security	536	157	69	161	77	65	0	7
Coast Guard	8	3	0	5	*	0	0	*
Countering Weapons of Mass Destruction Office	52	7	4	30	8	0	0	2
Science and Technology Directorate	459	147	63	110	69	65	0	5
Secret Service	4	0	*	3	0	0	0	0
Transportation Security Administration	13	0	1	12	0	*	0	0
Department of the Interior	494	394	*	9	76	5	8	1
Bureau of Indian Affairs	5	0	0	0	0	0	5	0
Bureau of Land Management	17	9	*	*	5	3	*	*
Bureau of Reclamation	30	9	*	6	11	2	2	0
Bureau of Safety and Environmental Enforcement	9	4	0	2	3	0	0	1
Fish and Wildlife Service	48	48	0	0	0	0	0	0
Geological Survey	378	323	0	1	52	1	1	0
National Park Service	6	2	0	0	5	0	0	0

Table 7. Federal obligations for research and experimental development, by agency and performer: FY 2024

(Dollars in millions)

Agency	Total R&D	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
Department of Justice	152	9	0	27	49	60	6	0
Bureau of Prisons	9	3	0	0	0	0	6	0
Federal Bureau of Investigation	16	0	0	15	1	0	0	0
Office of Justice Programs	127	7	0	12	48	60	0	0
Department of Labor	2	1	0	1	0	0	0	0
Employee Benefits Security Administration	2	1	0	1	0	0	0	0
Department of State	34	34	0	0	0	0	0	0
Department of Transportation	1,192	221	84	374	194	39	275	5
Federal Aviation Administration	396	45	70	196	63	5	12	5
Federal Highway Administration	437	73	2	76	73	24	189	0
Federal Motor Carrier Safety Administration	16	6	2	8	0	*	0	0
Federal Railroad Administration	35	8	0	11	10	5	*	1
Federal Transit Administration	51	13	0	0	14	1	22	0
National Highway Traffic Safety Administration	108	9	9	59	29	1	0	0
Office of the Secretary of Transportation	129	57	0	18	0	0	53	0
Pipeline and Hazardous Materials Safety Administration	21	9	1	5	4	2	0	0
Department of the Treasury	35	2	6	14	0	0	0	12
Bureau of Engraving and Printing	35	2	6	14	0	0	0	12
Mint	*	0	0	*	0	0	0	0
Department of Veterans Affairs	1,869	1,790	79	0	0	0	0	0
Other agencies								
Agency for Global Media	9	3	0	7	0	0	0	0
Agency for International Development	252	24	0	14	119	32	0	63
Appalachian Regional Commission	1	0	0	1	*	*	0	0
Consumer Product Safety Commission	*	*	0	0	0	0	0	0
Environmental Protection Agency	535	300	1	177	48	9	0	*
Federal Trade Commission	1	1	0	0	0	0	0	0
National Aeronautics and Space Administration	10,905	1,721	2,001	5,165	1,805	187	4	21
National Science Foundation	6,995	61	335	670	5,556	313	47	12
Nuclear Regulatory Commission	73	2	33	13	23	0	0	2
Patient-Centered Outcomes Research Trust Fund	605	0	0	0	0	605	0	0
Postal Service	5	0	0	5	0	0	0	0
RESTORE Act Centers of Excellence Research Grants Program	7	0	0	0	0	0	7	0
Smithsonian Institution	168	168	0	0	0	0	0	0

Table 7. Federal obligations for research and experimental development, by agency and performer: FY 2024

(Dollars in millions)

Agency	Total R&D	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
Social Security Administration	97	49	0	22	15	5	5	0
Tennessee Valley Authority	117	0	0	108	0	9	0	0

* = amount greater than \$0 but less than \$500,000.

FFRDC = federally funded research and development center.

^a Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, and actual federal performance.^b Higher education includes both public and private institutions as well as University Affiliated Research Centers.**Note(s):**Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.**Source(s):**

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 8. Preliminary federal obligations for research and experimental development, by agency and performer: FY 2025

(Dollars in millions)

Agency	Total R&D	Intramural		Extramural				Non-U.S. performers
		Federal agencies ^a	FFRDCs	United States and U.S. territories				
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
All agencies	194,056	55,387	17,819	65,715	42,683	10,967	716	769
Departments								
Department of Agriculture	3,294	1,991	0	45	1,170	56	25	7
Agricultural Marketing Service	18	0	0	0	5	*	13	0
Agricultural Research Service	1,790	1,576	0	0	190	17	*	7
Animal and Plant Health Inspection Service	72	38	0	2	25	4	3	0
Economic Research Service	91	90	0	*	1	0	0	0
Forest Service	291	250	0	1	31	2	7	*
National Agricultural Statistics Service	9	9	0	0	*	0	0	0
National Institute of Food and Agriculture	1,000	8	0	41	916	33	1	0
Natural Resources Conservation Service	23	20	0	*	2	0	*	0
Department of Commerce	9,848	8,598	22	665	465	58	5	35
Census Bureau	360	356	0	0	4	1	0	0
National Institute of Standards and Technology	8,001	7,602	22	311	58	8	0	*
National Oceanic and Atmospheric Administration	1,072	640	*	21	394	12	5	*
National Telecommunications and Information Administration	415	0	0	332	10	38	0	35
Department of Defense	93,353	29,047	3,262	52,634	5,241	2,821	16	334
Defense Advanced Research Projects Agency	4,404	291	157	3,051	719	162	0	24
Defense Health Agency	2,509	444	21	582	678	711	*	74
Department of the Air Force	30,234	8,421	741	19,554	1,054	372	9	83
Air Force	19,576	7,613	346	10,302	965	347	1	1
Space Force	10,658	807	395	9,251	88	25	8	83
Department of the Army	14,470	4,035	177	8,563	847	830	*	16
Department of the Navy	22,481	8,504	439	12,038	1,260	196	*	43
Other defense agencies	19,255	7,353	1,726	8,847	682	549	6	92
Department of Education	457	0	0	35	245	136	41	0
Department of Energy	16,031	1,217	11,366	2,192	1,041	145	69	1
Advanced Research Projects Agency—Energy	460	1	47	229	161	21	0	0
Electricity Delivery and Energy Reliability	178	1	151	20	2	4	1	0
Energy Efficiency and Renewable Energy	2,474	17	1,397	580	383	67	30	0
Environmental Management	39	0	27	11	0	0	0	0
Fossil Energy	1,160	769	354	0	7	23	6	1
National Nuclear Security Administration	4,213	351	2,537	1,215	108	2	0	0
Defense Programs	2,908	287	2,181	351	87	2	0	0

Table 8. Preliminary federal obligations for research and experimental development, by agency and performer: FY 2025

(Dollars in millions)

Agency	Total R&D	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
Naval Nuclear Propulsion Program	906	62	*	844	0	0	0	0
Office of Defense Nuclear Nonproliferation	400	2	356	20	21	0	0	0
Nuclear Energy	691	50	580	59	0	2	0	*
Office of Cybersecurity, Energy Security, and Emergency Response	138	*	59	16	41	22	0	0
Office of Science	6,680	29	6,215	62	338	3	33	0
Department of Health and Human Services	47,719	9,766	599	3,418	26,895	6,500	207	334
Administration for Children and Families	11	*	0	0	2	9	0	0
Administration for Community Living	112	0	0	3	76	31	1	0
Advanced Research Projects Agency for Health	1,097	38	20	354	570	116	0	0
Agency for Healthcare Research and Quality	374	83	0	144	116	30	*	0
Agency for Toxic Substances and Disease Registry	3	0	0	0	2	1	0	*
Biomedical Advanced Research and Development Authority	819	73	0	613	43	43	0	47
Centers for Disease Control and Prevention	369	51	0	13	200	34	55	15
Centers for Medicare and Medicaid Services	20	*	0	5	3	13	0	0
Food and Drug Administration	667	432	0	8	83	74	65	5
Health Resources and Services Administration	80	6	0	0	67	5	2	0
National Institutes of Health	44,129	9,063	579	2,269	25,735	6,134	84	267
Office of the Secretary of Health and Human Services	37	20	0	8	0	9	0	0
Office of the Assistant Secretary for Planning and Evaluation	37	20	0	8	0	9	0	0
Department of Homeland Security	353	101	48	113	45	41	0	6
Coast Guard	10	3	0	6	0	0	0	0
Countering Weapons of Mass Destruction Office	15	*	*	15	0	0	0	0
Cybersecurity and Infrastructure Security Agency	1	1	0	0	0	0	0	0
Science and Technology Directorate	311	94	43	82	45	41	0	6
Secret Service	6	2	2	2	*	0	0	0
Transportation Security Administration	11	1	2	7	0	0	0	0
Department of the Interior	446	351	1	9	70	6	9	*
Bureau of Indian Affairs	5	0	0	0	0	0	5	0
Bureau of Land Management	15	6	*	*	6	2	*	0
Bureau of Reclamation	32	12	*	5	9	3	2	0
Bureau of Safety and Environmental Enforcement	6	2	0	3	*	0	0	*
Fish and Wildlife Service	6	6	0	0	0	0	0	0
Geological Survey	377	322	0	1	52	1	1	0

Table 8. Preliminary federal obligations for research and experimental development, by agency and performer: FY 2025

(Dollars in millions)

Agency	Total R&D	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
National Park Service	6	3	0	0	3	0	0	0
Department of Justice	154	7	0	29	52	61	5	0
Bureau of Prisons	8	3	0	0	0	0	5	0
Federal Bureau of Investigation	21	0	0	20	1	0	0	0
Office of Justice Programs	125	5	0	9	51	61	0	0
Department of Labor	2	1	0	1	0	0	0	0
Employee Benefits Security Administration	2	1	0	1	0	0	0	0
Department of Transportation	1,201	193	72	432	167	43	290	5
Federal Aviation Administration	408	46	70	204	65	5	12	5
Federal Highway Administration	431	51	1	146	56	1	176	0
Federal Motor Carrier Safety Administration	10	5	*	5	*	*	0	0
Federal Railroad Administration	22	3	0	12	3	3	1	0
Federal Transit Administration	7	0	0	0	5	2	*	0
National Highway Traffic Safety Administration	123	19	0	41	33	30	0	0
Office of the Secretary of Transportation	178	61	0	17	0	0	100	0
Pipeline and Hazardous Materials Safety Administration	22	8	1	7	4	2	0	0
Department of the Treasury	64	3	8	39	0	0	0	14
Bureau of Engraving and Printing	64	3	8	39	0	0	0	14
Mint	*	0	0	*	0	0	0	*
Department of Veterans Affairs	1,880	1,800	80	0	0	0	0	0
Other agencies								
Appalachian Regional Commission	*	0	0	*	0	*	0	0
Consumer Product Safety Commission	*	*	0	0	0	0	0	0
Environmental Protection Agency	535	308	0	171	44	11	0	0
Federal Trade Commission	*	*	0	0	0	0	0	0
National Aeronautics and Space Administration	10,936	1,712	2,019	5,177	1,814	188	4	21
National Science Foundation	6,825	61	324	660	5,415	306	47	12
Nuclear Regulatory Commission	41	1	19	7	13	0	0	0
Patient-Centered Outcomes Research Trust Fund	583	0	0	0	0	583	0	0
Postal Service	3	0	0	3	0	0	0	0
RESTORE Act Centers of Excellence Research Grants Program	5	0	0	0	5	0	*	0
Smithsonian Institution	182	182	0	0	0	0	0	0
Social Security Administration	58	46	0	8	0	4	0	0
Tennessee Valley Authority	85	0	0	78	0	7	0	0

* = amount greater than \$0 but less than \$500,000.

FFRDC = federally funded research and development center.

^a Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, and actual federal performance.

^b Higher education includes both public and private institutions as well as University Affiliated Research Centers.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 9. Federal obligations for extramural R&D and R&D plant, by type of agreement and agency: FY 2024

(Dollars in thousands)

Agency	Total R&D and R&D plant		R&D		R&D plant	
	Contracts	Grants	Contracts	Grants	Contracts	Grants
All agencies	74,429,244	53,861,062	73,580,149	53,240,450	849,095	620,612
Departments						
Department of Agriculture	285,423	1,208,174	285,227	1,208,174	196	0
Agricultural Marketing Service	0	29,256	0	29,256	0	0
Agricultural Research Service	285,227	0	285,227	0	0	0
Animal and Plant Health Inspection Service	0	35,763	0	35,763	0	0
Economic Research Service	0	855	0	855	0	0
Forest Service	0	45,009	0	45,009	0	0
National Agricultural Statistics Service	0	537	0	537	0	0
National Institute of Food and Agriculture	0	1,081,397	0	1,081,397	0	0
Natural Resources Conservation Service	196	15,357	0	15,357	196	0
Department of Commerce	238,060	736,088	58,452	622,075	179,608	114,014
Census Bureau	4,409	0	4,409	0	0	0
National Institute of Standards and Technology	33,954	206,405	33,954	206,405	0	0
National Oceanic and Atmospheric Administration	187,058	394,762	15,315	394,762	171,743	0
National Telecommunications and Information Administration	12,639	134,921	4,774	20,907	7,865	114,014
Department of Defense	58,654,474	5,501,203	58,642,224	5,501,203	12,250	0
Defense Advanced Research Projects Agency	3,475,811	261,620	3,475,811	261,620	0	0
Defense Health Agency	946,495	1,757,373	946,495	1,757,373	0	0
Department of the Air Force	18,642,394	1,817,379	18,635,900	1,817,379	6,494	0
Air Force	10,292,006	1,817,379	10,285,547	1,817,379	6,459	0
Space Force	8,350,388	0	8,350,353	0	35	0
Department of the Army	12,491,564	0	12,491,564	0	0	0
Department of the Navy	12,371,160	1,010,659	12,366,218	1,010,659	4,942	0
Other defense agencies	10,727,050	654,172	10,726,236	654,172	814	0
Department of Education	33,623	422,923	33,623	422,923	0	0
Department of Energy	2,828,885	2,868,524	2,340,870	2,864,006	488,015	4,518
Advanced Research Projects Agency—Energy	30,669	413,545	30,669	413,545	0	0
Electricity Delivery and Energy Reliability	24,319	0	24,319	0	0	0
Energy Efficiency and Renewable Energy	212,167	848,668	212,167	848,668	0	0
Environmental Management	9,409	0	9,409	0	0	0
Fossil Energy	0	396,731	0	396,731	0	0
National Nuclear Security Administration	1,732,460	10,100	1,245,240	10,100	487,220	0
Defense Programs	556,825	0	324,688	0	232,136	0
Naval Nuclear Propulsion Program	1,151,634	0	896,550	0	255,084	0
Office of Defense Nuclear Nonproliferation	24,002	10,100	24,002	10,100	0	0
Nuclear Energy	21,461	204,685	20,666	203,245	795	1,440

Table 9. Federal obligations for extramural R&D and R&D plant, by type of agreement and agency: FY 2024

(Dollars in thousands)

Agency	Total R&D and R&D plant		R&D		R&D plant	
	Contracts	Grants	Contracts	Grants	Contracts	Grants
Office of Cybersecurity, Energy Security, and Emergency Response	1,532	58,335	1,532	58,335	0	0
Office of Science	796,867	936,461	796,867	933,382	0	3,079
Department of Health and Human Services	4,660,784	33,732,030	4,658,382	33,645,198	2,402	86,832
Administration for Children and Families	0	10,647	0	10,647	0	0
Administration for Community Living	0	112,987	0	112,987	0	0
Advanced Research Projects Agency for Health	778,256	194,127	778,256	194,127	0	0
Agency for Healthcare Research and Quality	46,928	243,589	46,928	243,589	0	0
Agency for Toxic Substances and Disease Registry	0	2,798	0	2,798	0	0
Biomedical Advanced Research and Development Authority	1,424,639	0	1,422,237	0	2,402	0
Centers for Disease Control and Prevention	53,683	262,857	53,683	262,857	0	0
Centers for Medicare and Medicaid Services	19,920	0	19,920	0	0	0
Food and Drug Administration	0	258,039	0	258,039	0	0
Health Resources and Services Administration	1,287	79,543	1,287	79,543	0	0
National Institutes of Health	2,310,904	32,560,170	2,310,904	32,473,338	0	86,832
Office of the Secretary of Health and Human Services	25,167	7,274	25,167	7,274	0	0
Office of the Assistant Secretary for Planning and Evaluation	25,167	7,274	25,167	7,274	0	0
Department of Homeland Security	250,359	61,627	248,609	61,627	1,751	0
Coast Guard	5,751	0	5,250	0	501	0
Countering Weapons of Mass Destruction Office	33,437	7,330	33,437	7,330	0	0
Science and Technology Directorate	194,486	54,298	194,256	54,298	230	0
Secret Service	3,480	0	3,480	0	0	0
Transportation Security Administration	13,205	0	12,185	0	1,020	0
Department of the Interior	12,593	92,984	6,691	92,912	5,902	73
Bureau of Indian Affairs	0	5,000	0	5,000	0	0
Bureau of Land Management	260	8,081	260	8,081	0	0
Bureau of Reclamation	2,385	19,528	1,894	19,455	491	73
Bureau of Safety and Environmental Enforcement	8,298	2,234	2,887	2,234	5,410	0
Geological Survey	1,650	53,347	1,650	53,347	0	0
National Park Service	0	4,795	0	4,795	0	0
Department of Justice	41,500	101,559	41,500	101,559	0	0
Bureau of Prisons	6,287	0	6,287	0	0	0
Federal Bureau of Investigation	16,475	0	16,475	0	0	0
Office of Justice Programs	18,738	101,559	18,738	101,559	0	0
Department of Labor	1,304	0	1,304	0	0	0
Employee Benefits Security Administration	1,304	0	1,304	0	0	0
Department of Transportation	508,796	415,604	472,080	415,114	36,716	490
Federal Aviation Administration	256,934	52,328	228,840	52,328	28,094	0

Table 9. Federal obligations for extramural R&D and R&D plant, by type of agreement and agency: FY 2024

(Dollars in thousands)

Agency	Total R&D and R&D plant		R&D		R&D plant	
	Contracts	Grants	Contracts	Grants	Contracts	Grants
Federal Highway Administration	103,541	259,342	103,541	258,852	0	490
Federal Motor Carrier Safety Administration	8,117	0	8,117	0	0	0
Federal Railroad Administration	35,957	0	27,335	0	8,622	0
Federal Transit Administration	0	37,265	0	37,265	0	0
National Highway Traffic Safety Administration	77,684	11,750	77,684	11,750	0	0
Office of the Secretary of Transportation	18,373	52,716	18,373	52,716	0	0
Pipeline and Hazardous Materials Safety Administration	8,189	2,201	8,189	2,201	0	0
Department of the Treasury	26,598	0	26,598	0	0	0
Bureau of Engraving and Printing	26,477	0	26,477	0	0	0
Mint	121	0	121	0	0	0
Other agencies						
Agency for Global Media	6,534	0	6,534	0	0	0
Agency for International Development	0	227,737	0	227,737	0	0
Appalachian Regional Commission	1,190	0	1,190	0	0	0
Environmental Protection Agency	181,938	57,533	177,138	57,533	4,800	0
National Aeronautics and Space Administration	6,181,396	1,062,653	6,120,043	1,062,653	61,353	0
National Science Foundation	353,778	6,715,414	297,675	6,300,729	56,103	414,685
Nuclear Regulatory Commission	15,008	22,882	15,008	22,882	0	0
Patient-Centered Outcomes Research Trust Fund	0	605,450	0	605,450	0	0
Postal Service	4,918	0	4,918	0	0	0
RESTORE Act Centers of Excellence Research Grants Program	0	6,556	0	6,556	0	0
Social Security Administration	25,085	22,120	25,085	22,120	0	0
Tennessee Valley Authority	117,000	0	117,000	0	0	0

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 10. Department of Defense obligations for research, development, test, and evaluation, by agency and performer: FY 2024

(Dollars in millions)

Agency	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
Department of Defense								
RDT&E	144,421	35,794	3,728	96,301	5,467	2,473	15	642
Total research	13,187	5,835	818	3,657	2,270	540	2	64
Basic research	4,693	2,356	57	1,090	1,004	165	*	22
Applied research	8,494	3,480	762	2,567	1,266	376	2	42
Total experimental development ^c	84,669	24,739	2,321	52,427	2,766	1,832	13	573
Advanced technology	13,658	2,677	274	7,444	1,734	1,375	2	153
Major systems	71,012	22,061	2,047	44,984	1,032	457	10	420
Total Operational System Development and Software and Digital Technology Pilot Programs ^d	46,564	5,220	589	40,217	431	101	*	6
Defense Advanced Research Projects Agency								
RDT&E	4,177	298	141	2,916	653	146	0	22
Total research	1,810	112	98	1,063	419	103	0	14
Basic research	352	14	12	159	125	40	0	2
Applied research	1,457	98	87	904	294	63	0	12
Total experimental development ^c	2,367	186	42	1,853	234	43	0	8
Advanced technology	2,116	91	42	1,698	234	43	0	8
Major systems	251	96	0	155	*	*	0	*
Total Operational System Development and Software and Digital Technology Pilot Programs ^d	0	0	0	0	0	0	0	0
Defense Health Agency								
RDT&E	3,217	494	18	709	911	983	*	101
Total research	600	214	9	125	66	169	*	18
Basic research	49	29	1	13	1	4	0	1
Applied research	551	185	7	112	65	165	*	17
Total experimental development ^c	2,615	279	10	584	846	814	0	83
Advanced technology	2,195	154	5	354	832	780	0	71
Major systems	420	125	5	231	13	34	0	12
Total Operational System Development and Software and Digital Technology Pilot Programs ^d	2	2	0	0	*	0	0	0
Department of the Air Force								
RDT&E	60,589	11,724	1,160	46,129	1,105	391	8	71
Total research	5,073	3,750	51	492	613	166	*	1
Basic research	2,716	1,786	0	481	367	82	*	0
Applied research	2,357	1,964	51	11	246	84	*	1

Table 10. Department of Defense obligations for research, development, test, and evaluation, by agency and performer: FY 2024

(Dollars in millions)

Agency	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
Total experimental development ^c	25,179	5,342	656	18,468	424	212	7	71
Advanced technology	1,704	441	18	1,013	160	71	1	*
Major systems	23,476	4,901	638	17,455	263	141	7	71
Total Operational System Development and Software and Digital Technology Pilot Programs ^d	30,337	2,632	454	27,169	68	13	*	*
Air Force								
RDT&E	44,103	10,607	604	31,557	987	346	1	1
Total research	5,042	3,719	51	492	613	166	*	1
Basic research	2,684	1,754	0	481	367	82	*	0
Applied research	2,357	1,964	51	11	246	84	*	1
Total experimental development ^c	15,752	4,673	248	10,320	342	168	1	0
Advanced technology	1,282	418	0	650	152	62	1	0
Major systems	14,471	4,255	248	9,671	190	106	0	0
Total Operational System Development and Software and Digital Technology Pilot Programs ^d	23,310	2,216	305	20,745	32	12	*	*
Space Force								
RDT&E	16,485	1,117	556	14,572	118	45	7	71
Total research	31	31	0	0	0	0	0	0
Basic research	31	31	0	0	0	0	0	0
Applied research	0	0	0	0	0	0	0	0
Total experimental development ^c	9,427	669	407	8,148	82	44	7	71
Advanced technology	422	23	18	363	8	9	0	*
Major systems	9,005	646	390	7,784	73	35	7	71
Total Operational System Development and Software and Digital Technology Pilot Programs ^d	7,027	416	149	6,424	36	1	0	0
Department of the Army								
RDT&E	16,816	3,518	124	12,703	372	93	0	7
Total research	2,049	796	58	972	214	5	0	5
Basic research	524	267	31	222		0	0	5
Applied research	1,525	529	27	750	214	5	0	1
Total experimental development ^c	13,458	2,128	34	11,061	149	85	0	1
Advanced technology	2,218	159	7	1,949	100	2	0	1
Major systems	11,240	1,969	28	9,113	48	83	0	0
Total Operational System Development and Software and Digital Technology Pilot Programs ^d	1,308	594	32	670	9	3	0	1

Table 10. Department of Defense obligations for research, development, test, and evaluation, by agency and performer: FY 2024

(Dollars in millions)

Agency	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
Department of the Navy								
RDT&E	28,086	11,526	428	14,366	1,507	202	*	56
Total research	2,047	672	11	494	789	58	*	23
Basic research	685	228	3	47	387	7	*	13
Applied research	1,362	444	8	447	402	51	*	10
Total experimental development ^c	21,943	9,587	343	11,363	531	91	*	28
Advanced technology	1,329	394	38	699	150	48	*	*
Major systems	20,614	9,193	305	10,664	381	43	*	28
Total Operational System Development and Software and Digital Technology Pilot Programs ^d	4,096	1,267	75	2,509	188	53	0	5
Other defense agencies								
RDT&E	31,537	8,234	1,856	19,477	918	658	7	387
Total research	1,608	292	591	512	169	38	2	4
Basic research	366	32	10	168	123	31	0	1
Applied research	1,242	260	581	343	46	7	2	3
Total experimental development ^c	19,108	7,216	1,236	9,097	583	587	5	382
Advanced technology	4,096	1,438	164	1,731	257	430	2	73
Major systems	15,011	5,778	1,072	7,366	326	157	4	309
Total Operational System Development and Software and Digital Technology Pilot Programs ^d	10,821	726	29	9,869	166	32	0	0

* = amount greater than \$0 but less than \$500,000.

FFRDC = federally funded research and development center; RDT&E = research, development, test, and evaluation.

^a Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, and actual federal performance.^b Higher education includes both public and private institutions as well as University Affiliated Research Centers.^c Department of Defense (DOD) development obligations have been reported in two categories, advanced technology and major systems, since volume 44 (FYs 1994–96). As of volume 66 (FYs 2016–17), the definition of major systems development was changed to represent DOD Budget Activities 4 through 6 instead of Budget Activities 4 through 7.^d Funding for DOD's Operational System Development (Budget Activity 7) was first reported as a separate category for volume 66. As of volume 73, it was combined with funding for DOD's Software and Digital Technology Pilot Programs (Budget Activity 8).**Note(s):**Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.**Source(s):**

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 11. Preliminary Department of Defense obligations for research, development, test, and evaluation, by agency and performer: FY 2025

(Dollars in millions)

Agency	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
Department of Defense								
RDT&E	140,938	34,073	3,839	94,226	5,477	2,967	18	338
Total research	11,239	3,622	851	3,386	2,721	597	1	62
Basic research	3,014	343	69	1,044	1,353	181	*	24
Applied research	8,226	3,279	782	2,343	1,368	416	*	38
Total experimental development ^c	82,114	25,426	2,411	49,247	2,520	2,223	15	271
Advanced technology	11,504	2,877	254	5,153	1,558	1,514	3	144
Major systems	70,610	22,549	2,157	44,094	962	709	12	127
Total Operational System Development and Software and Digital Technology Pilot Programs ^d	47,585	5,025	578	41,593	236	147	2	5
Defense Advanced Research Projects Agency								
RDT&E	4,404	291	157	3,051	719	162	0	24
Total research	2,101	131	115	1,236	485	119	0	16
Basic research	398	16	13	180	141	46	0	2
Applied research	1,703	115	101	1,056	343	74	0	13
Total experimental development ^c	2,303	160	43	1,814	234	43	0	8
Advanced technology	2,121	91	43	1,702	234	43	0	8
Major systems	182	69	0	112	*	*	0	*
Total Operational System Development and Software and Digital Technology Pilot Programs ^d	0	0	0	0	0	0	0	0
Defense Health Agency								
RDT&E	2,509	444	21	582	678	711	*	74
Total research	510	206	10	107	47	129	*	11
Basic research	40	22	1	10	1	6	0	*
Applied research	471	184	9	97	46	123	*	11
Total experimental development ^c	1,999	237	11	474	631	582	0	63
Advanced technology	1,639	132	3	278	622	549	0	54
Major systems	360	105	8	196	8	33	0	9
Total Operational System Development and Software and Digital Technology Pilot Programs ^d	*	*	0	0	0	0	0	0
Department of the Air Force								
RDT&E	62,535	10,917	1,167	48,873	1,102	382	11	83
Total research	3,439	2,088	58	511	612	169	*	1
Basic research	996	45	0	500	368	82	*	0
Applied research	2,444	2,043	58	11	244	87	*	1

Table 11. Preliminary Department of Defense obligations for research, development, test, and evaluation, by agency and performer: FY 2025

(Dollars in millions)

Agency	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
Total experimental development ^c	26,795	6,333	684	19,042	442	203	8	83
Advanced technology	1,758	456	22	1,044	171	64	1	0
Major systems	25,036	5,877	661	17,998	270	139	8	83
Total Operational System Development and Software and Digital Technology Pilot Programs ^d	32,301	2,496	426	29,319	48	10	2	*
Air Force								
RDT&E	44,901	9,822	634	33,095	989	357	3	1
Total research	3,401	2,050	58	511	612	169	*	1
Basic research	958	7	0	500	368	82	*	0
Applied research	2,444	2,043	58	11	244	87	*	1
Total experimental development ^c	16,175	5,564	289	9,791	353	178	1	0
Advanced technology	1,331	434	0	676	157	63	1	0
Major systems	14,844	5,129	289	9,115	196	115	0	0
Total Operational System Development and Software and Digital Technology Pilot Programs ^d	25,325	2,208	288	22,793	24	10	2	*
Space Force								
RDT&E	17,634	1,095	533	15,777	112	26	8	83
Total research	38	38	0	0	0	0	0	0
Basic research	38	38	0	0	0	0	0	0
Applied research	0	0	0	0	0	0	0	0
Total experimental development ^c	10,620	769	395	9,251	88	25	8	83
Advanced technology	427	21	22	369	14	*	0	0
Major systems	10,193	748	372	8,883	74	25	8	83
Total Operational System Development and Software and Digital Technology Pilot Programs ^d	6,976	288	138	6,526	24	1	0	0
Department of the Army								
RDT&E	15,731	4,509	181	9,263	853	909	*	16
Total research	1,604	264	57	587	592	94	0	10
Basic research	494	8	36	139	284	19	0	9
Applied research	1,109	256	20	448	308	75	0	1
Total experimental development ^c	12,866	3,771	121	7,977	255	736	*	6
Advanced technology	1,509	895	19	64	206	324	0	2
Major systems	11,356	2,876	102	7,913	50	412	*	4
Total Operational System Development and Software and Digital Technology Pilot Programs ^d	1,262	475	4	699	6	78	0	0

Table 11. Preliminary Department of Defense obligations for research, development, test, and evaluation, by agency and performer: FY 2025

(Dollars in millions)

Agency	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
Department of the Navy								
RDT&E	26,374	9,792	563	14,390	1,363	218	*	48
Total research	1,968	648	10	474	757	56	*	22
Basic research	660	222	2	45	371	7	*	12
Applied research	1,308	426	8	429	386	49	*	9
Total experimental development ^c	20,513	7,856	429	11,563	503	140	*	22
Advanced technology	1,324	372	49	672	141	89	*	*
Major systems	19,189	7,484	379	10,892	362	51	*	21
Total Operational System Development and Software and Digital Technology Pilot Programs ^d	3,893	1,288	123	2,352	103	22	0	5
Other defense agencies								
RDT&E	29,385	8,120	1,750	18,069	762	584	6	92
Total research	1,617	285	601	471	228	29	0	3
Basic research	425	30	16	170	187	22	0	*
Applied research	1,191	255	585	301	41	7	0	3
Total experimental development ^c	17,639	7,068	1,125	8,376	455	519	6	89
Advanced technology	3,153	931	117	1,394	183	446	2	80
Major systems	14,486	6,138	1,007	6,982	272	73	4	10
Total Operational System Development and Software and Digital Technology Pilot Programs ^d	10,129	767	25	9,223	80	36	0	0

* = amount greater than \$0 but less than \$500,000.

FFRDC = federally funded research and development center; RDT&E = research, development, test, and evaluation.

^a Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, and actual federal performance.^b Higher education includes both public and private institutions as well as University Affiliated Research Centers.^c Department of Defense (DOD) development obligations have been reported in two categories, advanced technology and major systems, since volume 44 (FYs 1994–96). As of volume 66 (FYs 2016–17), the definition of major systems development was changed to represent DOD Budget Activities 4 through 6 instead of Budget Activities 4 through 7.^d Funding for DOD's Operational System Development (Budget Activity 7) was first reported as a separate category for volume 66. As of volume 73, it was combined with funding for DOD's Software and Digital Technology Pilot Programs (Budget Activity 8).**Note(s):**Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.**Source(s):**

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 12. Federal obligations for federal agency performance of R&D, by agency, type of R&D, and R&D plant: FY 2024

(Dollars in thousands)

Agency	Total R&D and R&D plant	Type of R&D				R&D plant
		Total R&D	Basic research	Applied research	Experimental development	
All agencies	52,449,823	51,071,672	10,069,051	14,417,151	26,585,470	1,378,150
Departments						
Department of Agriculture	2,137,509	1,999,908	845,106	926,838	227,964	137,601
Agricultural Research Service	1,639,586	1,502,220	751,110	600,888	150,222	137,366
Animal and Plant Health Inspection Service	40,904	40,904	1,184	19,842	19,878	0
Economic Research Service	89,757	89,757	0	89,757	0	0
Forest Service	274,730	274,730	89,009	131,366	54,356	0
National Agricultural Statistics Service	7,797	7,797	0	4,288	3,509	0
National Institute of Food and Agriculture	8,645	8,645	3,803	4,842	0	0
Natural Resources Conservation Service	76,090	75,855	0	75,855	0	235
Department of Commerce	2,578,280	1,961,150	286,862	1,096,729	577,558	617,131
Census Bureau	355,542	355,542	0	190,730	164,812	0
National Institute of Standards and Technology	1,185,345	1,049,903	286,862	455,920	307,121	135,442
National Oceanic and Atmospheric Administration	1,037,393	555,704	0	450,079	105,625	481,689
Department of Defense	30,796,498	30,574,072	2,355,767	3,479,549	24,738,757	222,425
Defense Advanced Research Projects Agency	298,469	298,469	13,783	98,454	186,231	0
Defense Health Agency	492,443	492,443	29,095	184,662	278,686	0
Department of the Air Force	9,261,491	9,092,168	1,785,713	1,964,225	5,342,230	169,323
Air Force	8,561,018	8,391,695	1,754,311	1,964,225	4,673,158	169,323
Space Force	700,473	700,473	31,402	0	669,072	0
Department of the Army	2,923,925	2,923,925	267,097	528,544	2,128,284	0
Department of the Navy	10,303,813	10,259,029	227,856	444,008	9,587,164	44,785
Other defense agencies	7,516,356	7,508,039	32,222	259,655	7,216,161	8,317
Department of Energy	1,783,172	1,724,891	229,840	1,306,257	188,794	58,282
Advanced Research Projects Agency—Energy	1,082	1,082	0	541	541	0
Electricity Delivery and Energy Reliability	967	967	90	399	478	0
Energy Efficiency and Renewable Energy	16,546	16,546	0	10,010	6,536	0
Environmental Management	50	50	0	16	33	0
Fossil Energy	1,006,219	981,219	0	981,219	0	25,000
National Nuclear Security Administration	472,494	442,490	198	274,871	167,421	30,004
Defense Programs	408,121	378,117	0	273,138	104,978	30,004
Naval Nuclear Propulsion Program	61,540	61,540	0	0	61,540	0
Office of Defense Nuclear Nonproliferation	2,833	2,833	198	1,732	903	0
Nuclear Energy	55,960	52,682	0	38,899	13,784	3,278
Office of Cybersecurity, Energy Security, and Emergency Response	76	76	0	76	0	0
Office of Science	229,779	229,779	229,552	227	0	0
Department of Health and Human Services	10,173,667	9,873,474	4,651,352	5,180,672	41,450	300,193
Administration for Children and Families	35	35	0	35	0	0
Advanced Research Projects Agency for Health	33,957	33,957	0	33,957	0	0
Agency for Healthcare Research and Quality	82,983	82,983	0	46,928	36,055	0
Biomedical Advanced Research and Development Authority	66,552	66,552	0	66,552	0	0

Table 12. Federal obligations for federal agency performance of R&D, by agency, type of R&D, and R&D plant: FY 2024

(Dollars in thousands)

Agency	Total R&D and R&D plant	Type of R&D				R&D plant
		Total R&D	Basic research	Applied research	Experimental development	
Centers for Disease Control and Prevention	67,210	67,210	29,922	31,893	5,395	0
Centers for Medicare and Medicaid Services	71	71	71	0	0	0
Food and Drug Administration	478,528	474,672	0	474,672	0	3,856
Health Resources and Services Administration	8,452	5,282	2,962	2,321	0	3,169
National Institutes of Health	9,433,320	9,140,152	4,618,397	4,521,755	0	293,168
Office of the Secretary of Health and Human Services	2,559	2,559	0	2,559	0	0
Office of the Assistant Secretary for Planning and Evaluation	2,559	2,559	0	2,559	0	0
Department of Homeland Security	158,838	156,901	23,616	43,786	89,500	1,937
Coast Guard	2,631	2,631	0	2,208	423	0
Countering Weapons of Mass Destruction Office	7,500	7,500	532	6,607	361	0
Science and Technology Directorate	148,706	146,770	23,084	34,970	88,716	1,937
Department of the Interior	396,771	394,062	42,297	322,129	29,636	2,709
Bureau of Land Management	8,738	8,738	787	7,845	106	0
Bureau of Reclamation	10,998	8,590	0	8,035	555	2,408
Bureau of Safety and Environmental Enforcement	4,336	4,036	956	3,017	63	301
Fish and Wildlife Service	48,000	48,000	0	48,000	0	0
Geological Survey	323,128	323,128	40,554	253,662	28,912	0
National Park Service	1,570	1,570	0	1,570	0	0
Department of Justice	9,156	9,156	1,280	5,874	2,002	0
Bureau of Prisons	2,587	2,587	0	1,035	1,552	0
Office of Justice Programs	6,569	6,569	1,280	4,839	450	0
Department of Labor	1,050	1,050	0	1,050	0	0
Employee Benefits Security Administration	1,050	1,050	0	1,050	0	0
Department of State	34,388	34,388	1,146	21,779	11,463	0
Department of Transportation	220,944	220,944	63,847	123,619	33,478	0
Federal Aviation Administration	44,968	44,968	0	22,134	22,834	0
Federal Highway Administration	72,692	72,692	0	67,997	4,694	0
Federal Motor Carrier Safety Administration	5,861	5,861	0	3,400	2,461	0
Federal Railroad Administration	7,773	7,773	0	7,772	2	0
Federal Transit Administration	13,411	13,411	0	9,924	3,487	0
National Highway Traffic Safety Administration	9,328	9,328	0	9,328	0	0
Office of the Secretary of Transportation	57,440	57,440	57,440	0	0	0
Pipeline and Hazardous Materials Safety Administration	9,470	9,470	6,407	3,064	0	0
Department of the Treasury	2,250	2,250	0	0	2,250	0
Bureau of Engraving and Printing	2,250	2,250	0	0	2,250	0
Department of Veterans Affairs	1,789,572	1,789,572	715,829	1,037,952	35,791	0
Other agencies						
Agency for Global Media	2,916	2,916	0	2,916	0	0
Agency for International Development	23,941	23,941	0	18,504	5,437	0
Consumer Product Safety Commission	47	47	0	47	0	0
Environmental Protection Agency	299,781	299,781	0	232,343	67,438	0
Federal Trade Commission	834	834	0	834	0	0

Table 12. Federal obligations for federal agency performance of R&D, by agency, type of R&D, and R&D plant: FY 2024

(Dollars in thousands)

Agency	Total R&D and R&D plant	Type of R&D			R&D plant	
		Total R&D	Basic research	Applied research		Experimental development
National Aeronautics and Space Administration	1,722,250	1,721,236	651,498	535,786	533,952	1,014
National Science Foundation	98,194	61,335	32,260	29,075	0	36,859
Nuclear Regulatory Commission	1,984	1,984	0	1,984	0	0
Smithsonian Institution	168,350	168,350	168,350	0	0	0
Social Security Administration	49,434	49,434	0	49,434	0	0

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 13. Federal agency obligations for interagency fund transfers for R&D: FY 2024

(Dollars in thousands)

Transferred from agency	Total transferred	Transferred to agency														
		DHS	DOC	DOD	DOE	DOI	DOJ	DOL	DOT	ED	HHS	NASA	NSF	USDA	VA	Other ^a
All agencies	15,839,133	8,519	42,347	11,765,117	917,049	1,396,545	3,265	35,041	175,916	3,257	38,796	85,365	52,671	120,653	18,078	1,176,516
Departments																
Department of Agriculture	93,049	0	2,155	0	5,343	55	0	17	0	0	0	235	0	85,245	0	0
Department of Commerce	358,329	231	2,300	6,467	527	440	375	6	2,301	1,751	2,067	4,261	1,768	1,567	0	334,267
Department of Defense	12,393,464	2,817	11,312	11,211,418	348,513	22,277	1,308	119	56,523	5	9,477	74,331	27,125	24,767	231	603,241
Department of Energy	253,439	0	630	8,340	219,000	8,342	192	6	568	0	0	2,081	5,809	761	0	7,709
Department of Health and Human Services	1,921,209	0	2,650	344,307	107,903	1,310,429	0	640	2,018	0	20,601	3,196	10,087	13	17,847	101,519
Department of Homeland Security	20,576	976	1,985	3,510	0	8,993	0	0	0	0	0	0	0	5,000	0	111
Department of the Interior	14,745	0	775	1,259	195	11,133	0	0	0	0	0	1,243	90	50	0	0
Department of Justice	4,824	0	2,629	2,065	0	0	130	0	0	0	0	0	0	0	0	0
Department of State	34,388	0	0	8,061	15,357	0	0	0	0	0	0	0	0	0	0	10,969
Department of Transportation	141,612	102	6,255	10,786	2,874	498	43	0	113,442	0	1,734	18	31	1,076	0	4,753
Department of the Treasury	2,250	0	550	1,700	0	0	0	0	0	0	0	0	0	0	0	0
Department of Veterans Affairs	310	0	0	71	0	0	0	0	0	0	239	0	0	0	0	0
Other agencies																
Agency for International Development	8,137	0	0	0	0	0	0	0	0	0	4,387	0	0	250	0	3,500
Consumer Product Safety Commission	47	0	0	0	0	0	0	0	0	0	0	0	47	0	0	0
Environmental Protection Agency	1,971	0	45	134	848	741	0	0	0	0	0	0	0	95	0	107
National Aeronautics and Space Administration	478,032	0	7,635	158,593	189,349	19,657	0	0	1,063	0	58	0	7,661	1,828	0	92,186
National Science Foundation	61,335	4,392	3,176	8,257	27,140	13,980	1,217	0	0	1,500	78	0	0	0	0	1,596
Nuclear Regulatory Commission	1,984	0	250	149	0	0	0	0	0	0	0	0	0	0	0	1,585
Social Security Administration	49,434	0	0	0	0	0	0	34,253	0	0	155	0	54	0	0	14,972

DHS = Department of Homeland Security; DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; DOI = Department of the Interior; DOJ = Department of Justice; DOL = Department of Labor; DOT = Department of Transportation; ED = Department of Education; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = Department of Agriculture; VA = Department of Veterans Affairs.

^a Other includes funds from the Departments of State and the Treasury, the Agency for International Development, the Environmental Protection Agency, the Library of Congress, the Nuclear Regulatory Commission, the Patient-Centered Outcomes Research Trust Fund, the Postal Service, the Smithsonian Institution, and the Social Security Administration.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 14. Federal agency obligations for interagency fund transfers for R&D plant: FY 2024

(Dollars in thousands)

Transferred from agency	Total transferred	Transferred to agency					
		DHS	DOC	DOD	DOI	DOT	Other ^a
All agencies	269,944	2,710	1,400	40,415	2,247	163	223,010
Departments							
Department of Commerce	222,556	0	0	0	0	0	222,556
Department of Defense	4,895	0	0	4,895	0	0	0
Department of Energy	1,400	0	1,400	0	0	0	0
Department of Homeland Security	1,444	1,444	0	0	0	0	0
Department of the Interior	1,777	0	0	31	1,746	0	0
Other agencies							
National Aeronautics and Space Administration	1,014	0	0	1,014	0	0	0
National Science Foundation	36,859	1,266	0	34,476	500	163	454

DHS = Department of Homeland Security; DOC = Department of Commerce; DOD = Department of Defense; DOI = Department of the Interior; DOT = Department of Transportation.

^a Other includes funds transferred to agencies that were not specifically identified by the respondents.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 15. Federal obligations for research and experimental development and for R&D plant to federally funded research and development centers, by agency and type of administrator: FY 2024

(Dollars in thousands)

Agency	R&D				R&D plant			
	Total	Industry-administered FFRDCs	University-administered FFRDCs	Nonprofit-administered FFRDCs	Total	Industry-administered FFRDCs	University-administered FFRDCs	Nonprofit-administered FFRDCs
All agencies	16,350,372	4,666,402	6,169,450	5,514,520	2,364,439	654,103	925,259	785,077
Departments								
Department of Commerce	23,293	0	2	23,291	0	0	0	0
National Institute of Standards and Technology	23,291	0	0	23,291	0	0	0	0
National Oceanic and Atmospheric Administration	2	0	2	0	0	0	0	0
Department of Defense	3,138,647	476,584	892,268	1,769,795	0	0	0	0
Defense Advanced Research Projects Agency	140,853	36,656	68,763	35,434	0	0	0	0
Defense Health Agency	18,424	150	1,455	16,819	0	0	0	0
Department of the Air Force	706,715	100,266	155,294	451,155	0	0	0	0
Air Force	299,231	86,039	96,260	116,932	0	0	0	0
Space Force	407,484	14,227	59,033	334,223	0	0	0	0
Department of the Army	91,678	0	0	91,678	0	0	0	0
Department of the Navy	353,792	165,460	65,034	123,299	0	0	0	0
Other defense agencies	1,827,186	174,052	601,723	1,051,410	0	0	0	0
Department of Energy	9,963,666	3,587,048	2,955,514	3,421,105	2,363,889	654,103	924,709	785,077
Advanced Research Projects Agency—Energy	51,126	12,060	10,038	29,028	0	0	0	0
Electricity Delivery and Energy Reliability	138,687	22,616	16,929	99,142	0	0	0	0
Energy Efficiency and Renewable Energy	1,396,619	100,400	191,000	1,105,219	57,630	0	0	57,630
Environmental Management	23,253	18,645	2,400	2,208	0	0	0	0
Fossil Energy	106,259	32,476	15,354	58,429	0	0	0	0
National Nuclear Security Administration	2,785,445	2,521,055	36,403	227,987	494,892	328,214	197	166,482
Defense Programs	2,424,756	2,285,088	9,280	130,389	328,747	328,214	197	337
Naval Nuclear Propulsion Program	180	180	0	0	0	0	0	0
Office of Defense Nuclear Nonproliferation	360,509	235,787	27,123	97,598	166,145	0	0	166,145
Nuclear Energy	664,480	546,237	42,805	75,439	324,954	324,954	0	0

Table 15. Federal obligations for research and experimental development and for R&D plant to federally funded research and development centers, by agency and type of administrator: FY 2024

(Dollars in thousands)

Agency	R&D			R&D plant				
	Total	Industry-administered FFRDCs	University-administered FFRDCs	Nonprofit-administered FFRDCs	Total	Industry-administered FFRDCs	University-administered FFRDCs	Nonprofit-administered FFRDCs
Environmental Protection Agency	848	291	352	205	0	0	0	0
National Aeronautics and Space Administration	2,000,619	8,675	1,950,316	41,628	550	0	550	0
National Science Foundation	335,486	0	329,950	5,536	0	0	0	0
Nuclear Regulatory Commission	32,795	18,498	2,836	11,461	0	0	0	0

FFRDC = federally funded research and development center.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 16. Federal obligations for research and experimental development to federally funded research and development centers, by FFRDC and agency: FY 2024

(Dollars in thousands)

FFRDC	Total	DHS	DOC	DOD	DOE	HHS	NASA	NSF	Other ^a
All FFRDCs	16,350,372	68,793	23,293	3,138,647	9,963,666	616,433	2,000,619	335,486	203,434
Administered by industrial firms ^b	3,929,042	5,411	0	455,462	2,888,791	555,162	8,675	0	15,541
Frederick National Laboratory for Cancer Research	531,467	0	0	0	0	531,467	0	0	0
Lawrence Livermore National Laboratory	1,353,924	3,935	0	131,528	1,196,432	17,357	1,058	0	3,614
Los Alamos National Laboratory	1,003,780	626	0	59,382	927,854	5,609	7,617	0	2,692
Sandia National Laboratories	1,039,871	850	0	264,552	764,505	729	0	0	9,234
Administered by universities and colleges ^c	6,169,450	3,024	2	892,268	2,955,514	32,544	1,950,316	329,950	5,833
Ames Laboratory	33,774	0	0	199	33,575	0	0	0	0
Argonne National Laboratory	946,073	175	0	2,437	928,899	10,934	605	0	3,023
Fermi National Accelerator Laboratory	354,552	0	0	10	354,542	0	0	0	0
Green Bank Observatory	9,550	0	0	0	0	0	0	9,550	0
Jet Propulsion Laboratory	1,954,706	297	0	5,210	0	0	1,949,199	0	0
Lawrence Berkeley National Laboratory	892,023	0	0	20,612	850,922	19,972	172	0	345
Lincoln Laboratory	825,077	1,502	0	823,273	0	0	177	0	126
NSF's National Optical-Infrared Astronomy Research Laboratory	66,120	0	0	0	0	0	0	66,120	0
National Center for Atmospheric Research	128,812	0	2	250	0	0	0	128,260	300
National Radio Astronomy Observatory	98,513	0	0	0	0	0	163	98,350	0
National Solar Observatory	27,670	0	0	0	0	0	0	27,670	0
Princeton Plasma Physics Laboratory	123,162	0	0	0	123,162	0	0	0	0
SLAC National Accelerator Laboratory	497,438	0	0	10,235	485,565	1,638	0	0	0
Software Engineering Institute	31,093	1,050	0	30,043	0	0	0	0	0
Thomas Jefferson National Accelerator Facility	180,888	0	0	0	178,849	0	0	0	2,039
Administered by nonprofit institutions ^{b,d}	6,251,879	60,359	23,291	1,790,917	4,119,362	28,727	41,628	5,536	182,060
Aerospace FFRDC	368,729	0	0	334,433	0	0	34,110	186	0
Arroyo Center	3,235	0	0	3,235	0	0	0	0	0
Brookhaven National Laboratory	598,550	0	0	12,320	573,565	4,593	7,518	0	555
CMS Alliance to Modernize Healthcare	16,342	0	0	0	0	16,342	0	0	0
Center for Advanced Aviation System Development	30,670	0	0	30,670	0	0	0	0	0
Center for Communications and Computing	6,343	0	0	6,343	0	0	0	0	0
Center for Enterprise Modernization	136,225	0	0	56,819	0	0	0	0	79,406
Center for Naval Analyses	144,531	0	0	144,531	0	0	0	0	0
Center for Nuclear Waste Regulatory Analyses	25,183	0	0	25,183	0	0	0	0	0
Homeland Security Systems Engineering and Development Institute	35,728	34,998	0	729	0	0	0	0	0
Idaho National Laboratory	664,885	0	0	16,253	632,339	0	0	0	16,293
NSEC—McLean, VA	803,503	0	0	733,439	0	0	0	0	70,064
National Biodefense Analysis and Countermeasures Center	9,691	9,691	0	0	0	0	0	0	0
National Cybersecurity Center of Excellence	106,920	0	23,291	83,629	0	0	0	0	0
National Defense Research Institute	9,533	0	0	9,533	0	0	0	0	0

Table 16. Federal obligations for research and experimental development to federally funded research and development centers, by FFRDC and agency: FY 2024

(Dollars in thousands)

FFRDC	Total	DHS	DOC	DOD	DOE	HHS	NASA	NSF	Other ^a
National Renewable Energy Laboratory	933,393	0	0	16,649	916,743	0	0	0	0
Oak Ridge National Laboratory	1,279,313	6,194	0	26,904	1,237,985	0	0	0	8,229
Pacific Northwest National Laboratory	740,478	7,787	0	24,848	692,539	7,793	0	0	7,511
Project Air Force	51,200	0	0	51,200	0	0	0	0	0
Savannah River National Laboratory	72,474	1,688	0	4,868	65,918	0	0	0	0
Science and Technology Policy Institute	20,042	0	0	14,667	23	0	0	5,350	2
Systems and Analyses Center	194,911	0	0	194,661	250	0	0	0	0

DHS = Department of Homeland Security; DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; FFRDC = federally funded research and development center; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation.

^a Other includes data for the Departments of the Interior, Transportation, the Treasury, and Veterans Affairs; the Environmental Protection Agency; and the Nuclear Regulatory Commission.

^b As of volume 73 (FYs 2023–24), two FFRDCs, Idaho National Laboratory and Savannah River National Laboratory, were moved from Administered by industrial firms to Administered by nonprofit institutions.

^c Universities and colleges includes university consortia.

^d Nonprofit institutions excludes universities and colleges.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 17. Federal obligations for R&D plant to federally funded research and development centers, by FFRDC and agency: FY 2024

(Dollars in thousands)

FFRDC	Total	DOE	NASA
All FFRDCs	2,364,439	2,363,889	550
Administered by industrial firms ^a	326,579	326,579	0
Lawrence Livermore National Laboratory	208,801	208,801	0
Los Alamos National Laboratory	86,157	86,157	0
Sandia National Laboratories	31,621	31,621	0
Administered by universities and colleges ^b	925,259	924,709	550
Ames Laboratory	10,475	10,475	0
Argonne National Laboratory	42,431	42,431	0
Fermi National Accelerator Laboratory	411,839	411,839	0
Jet Propulsion Laboratory	550	0	550
Lawrence Berkeley National Laboratory	197,516	197,516	0
Princeton Plasma Physics Laboratory	26,000	26,000	0
SLAC National Accelerator Laboratory	198,206	198,206	0
Thomas Jefferson National Accelerator Facility	38,242	38,242	0
Administered by nonprofit institutions ^{a,c}	1,112,600	1,112,600	0
Brookhaven National Laboratory	133,220	133,220	0
Idaho National Laboratory	325,068	325,068	0
National Renewable Energy Laboratory	57,630	57,630	0
Oak Ridge National Laboratory	567,704	567,704	0
Pacific Northwest National Laboratory	26,523	26,523	0
Savannah River National Laboratory	2,455	2,455	0

DOE = Department of Energy; FFRDC = federally funded research and development center; NASA = National Aeronautics and Space Administration.

^a As of volume 73 (FYs 2023–24), two FFRDCs, Idaho National Laboratory and Savannah River National Laboratory, were moved from Administered by industrial firms to Administered by nonprofit institutions.^b Universities and colleges includes university consortia.^c Nonprofit institutions excludes universities and colleges.**Note(s):**Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.**Source(s):**

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 18. Federal obligations to federally funded research and development centers, by sponsoring agency, type of R&D, and R&D plant: FY 2024

(Dollars in thousands)

FFRDC	Total R&D and R&D plant	Type of R&D				R&D plant
		Total R&D	Basic research	Applied research	Experimental development	
All agencies sponsoring FFRDCs	18,714,810	16,350,372	6,621,796	5,167,761	4,560,815	2,364,439
Departments						
Department of Commerce	106,920	106,920	0	23,291	83,629	0
National Cybersecurity Center of Excellence	106,920	106,920	0	23,291	83,629	0
Department of Defense	2,438,156	2,438,156	59,596	660,272	1,718,288	0
Aerospace FFRDC	368,729	368,729	14,624	6,193	347,912	0
Arroyo Center	3,235	3,235	0	0	3,235	0
Center for Communications and Computing	6,343	6,343	76	4,067	2,200	0
Center for Naval Analyses	144,531	144,531	30,894	28,082	85,556	0
Lincoln Laboratory	825,077	825,077	8,040	486,392	330,646	0
NSEC—McLean, VA	803,503	803,503	1,041	11,522	790,940	0
National Defense Research Institute	9,533	9,533	1,300	1,160	7,073	0
Project Air Force	51,200	51,200	0	51,200	0	0
Software Engineering Institute	31,093	31,093	250	2,203	28,640	0
Systems and Analyses Center	194,911	194,911	3,372	69,453	122,086	0
Department of Energy	13,078,466	10,714,577	4,935,035	4,069,972	1,709,571	2,363,889
Ames Laboratory	44,249	33,774	31,449	1,949	375	10,475
Argonne National Laboratory	988,504	946,073	684,273	170,824	90,976	42,431
Brookhaven National Laboratory	731,770	598,550	576,966	6,159	15,425	133,220
Fermi National Accelerator Laboratory	766,391	354,552	353,786	380	385	411,839
Idaho National Laboratory	989,953	664,885	13,867	513,900	137,119	325,068
Lawrence Berkeley National Laboratory	1,089,539	892,023	834,220	32,599	25,204	197,516
Lawrence Livermore National Laboratory	1,562,725	1,353,924	121,804	1,014,183	217,936	208,801
Los Alamos National Laboratory	1,089,938	1,003,780	146,058	740,728	116,994	86,157
National Renewable Energy Laboratory	991,023	933,393	43,160	521,656	368,577	57,630
Oak Ridge National Laboratory	1,847,017	1,279,313	976,434	100,736	202,144	567,704
Pacific Northwest National Laboratory	767,001	740,478	278,232	301,856	160,390	26,523
Princeton Plasma Physics Laboratory	149,162	123,162	118,725	4,297	140	26,000
SLAC National Accelerator Laboratory	695,644	497,438	464,714	25,714	7,010	198,206
Sandia National Laboratories	1,071,492	1,039,871	102,225	607,380	330,266	31,621
Savannah River National Laboratory	74,929	72,474	10,818	25,278	36,377	2,455
Thomas Jefferson National Accelerator Facility	219,130	180,888	178,304	2,334	250	38,242
Department of Health and Human Services	547,809	547,809	273,823	273,986	0	0
CMS Alliance to Modernize Healthcare	16,342	16,342	2,774	13,567	0	0
Frederick National Laboratory for Cancer Research	531,467	531,467	271,048	260,419	0	0
Department of Homeland Security	45,418	45,418	1,816	13,994	29,608	0
Homeland Security Systems Engineering and Development Institute	35,728	35,728	1,816	12,994	20,917	0
National Biodefense Analysis and Countermeasures Center	9,691	9,691	0	1,000	8,691	0
Department of Transportation	30,670	30,670	0	0	30,670	0
Center for Advanced Aviation System Development	30,670	30,670	0	0	30,670	0
Department of the Treasury	136,225	136,225	79,406	11,155	45,664	0
Center for Enterprise Modernization	136,225	136,225	79,406	11,155	45,664	0
Other agencies						

Table 18. Federal obligations to federally funded research and development centers, by sponsoring agency, type of R&D, and R&D plant: FY 2024

(Dollars in thousands)

FFRDC	Total R&D and R&D plant	Type of R&D			R&D plant	
		Total R&D	Basic research	Applied research		Experimental development
National Aeronautics and Space Administration	1,955,256	1,954,706	936,732	106,074	911,899	550
Jet Propulsion Laboratory	1,955,256	1,954,706	936,732	106,074	911,899	550
National Science Foundation	350,706	350,706	335,388	399	14,919	0
Green Bank Observatory	9,550	9,550	9,550	0	0	0
NSF's National Optical-Infrared Astronomy Research Laboratory	66,120	66,120	66,120	0	0	0
National Center for Atmospheric Research	128,812	128,812	128,260	301	251	0
National Radio Astronomy Observatory	98,513	98,513	98,438	75	0	0
National Solar Observatory	27,670	27,670	27,670	0	0	0
Science and Technology Policy Institute	20,042	20,042	5,350	23	14,669	0
Nuclear Regulatory Commission	25,183	25,183	0	8,617	16,566	0
Center for Nuclear Waste Regulatory Analyses	25,183	25,183	0	8,617	16,566	0

FFRDC = federally funded research and development center.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2 at https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables).

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 19. Federal obligations for research and experimental development to federally funded research and development centers, by sponsoring agency and funding agency: FY 2024

(Dollars in thousands)

FFRDC	Total R&D	Funding agency							
		DHS	DOC	DOD	DOE	HHS	NASA	NSF	Other ^a
All agencies sponsoring FFRDCs	16,350,372	68,793	23,293	3,138,647	9,963,666	616,433	2,000,619	335,486	203,434
Departments									
Department of Commerce	106,920	0	23,291	83,629	0	0	0	0	0
National Cybersecurity Center of Excellence	106,920	0	23,291	83,629	0	0	0	0	0
Department of Defense	2,438,156	2,552	0	2,330,691	250	0	34,287	186	70,190
Aerospace FFRDC	368,729	0	0	334,433	0	0	34,110	186	0
Arroyo Center	3,235	0	0	3,235	0	0	0	0	0
Center for Communications and Computing	6,343	0	0	6,343	0	0	0	0	0
Center for Naval Analyses	144,531	0	0	144,531	0	0	0	0	0
Lincoln Laboratory	825,077	1,502	0	823,273	0	0	177	0	126
NSEC—McLean, VA	803,503	0	0	733,439	0	0	0	0	70,064
National Defense Research Institute	9,533	0	0	9,533	0	0	0	0	0
Project Air Force	51,200	0	0	51,200	0	0	0	0	0
Software Engineering Institute	31,093	1,050	0	30,043	0	0	0	0	0
Systems and Analyses Center	194,911	0	0	194,661	250	0	0	0	0
Department of Energy	10,714,577	21,256	0	590,798	9,963,393	68,624	16,969	0	53,536
Ames Laboratory	33,774	0	0	199	33,575	0	0	0	0
Argonne National Laboratory	946,073	175	0	2,437	928,899	10,934	605	0	3,023
Brookhaven National Laboratory	598,550	0	0	12,320	573,565	4,593	7,518	0	555
Fermi National Accelerator Laboratory	354,552	0	0	10	354,542	0	0	0	0
Idaho National Laboratory	664,885	0	0	16,253	632,339	0	0	0	16,293
Lawrence Berkeley National Laboratory	892,023	0	0	20,612	850,922	19,972	172	0	345
Lawrence Livermore National Laboratory	1,353,924	3,935	0	131,528	1,196,432	17,357	1,058	0	3,614
Los Alamos National Laboratory	1,003,780	626	0	59,382	927,854	5,609	7,617	0	2,692
National Renewable Energy Laboratory	933,393	0	0	16,649	916,743	0	0	0	0
Oak Ridge National Laboratory	1,279,313	6,194	0	26,904	1,237,985	0	0	0	8,229
Pacific Northwest National Laboratory	740,478	7,787	0	24,848	692,539	7,793	0	0	7,511
Princeton Plasma Physics Laboratory	123,162	0	0	0	123,162	0	0	0	0
SLAC National Accelerator Laboratory	497,438	0	0	10,235	485,565	1,638	0	0	0
Sandia National Laboratories	1,039,871	850	0	264,552	764,505	729	0	0	9,234
Savannah River National Laboratory	72,474	1,688	0	4,868	65,918	0	0	0	0
Thomas Jefferson National Accelerator Facility	180,888	0	0	0	178,849	0	0	0	2,039
Department of Health and Human Services	547,809	0	0	0	0	547,809	0	0	0
CMS Alliance to Modernize Healthcare	16,342	0	0	0	0	16,342	0	0	0
Frederick National Laboratory for Cancer Research	531,467	0	0	0	0	531,467	0	0	0
Department of Homeland Security	45,418	44,689	0	729	0	0	0	0	0
Homeland Security Systems Engineering and Development Institute	35,728	34,998	0	729	0	0	0	0	0

Table 19. Federal obligations for research and experimental development to federally funded research and development centers, by sponsoring agency and funding agency: FY 2024

(Dollars in thousands)

FFRDC	Total R&D	Funding agency							
		DHS	DOC	DOD	DOE	HHS	NASA	NSF	Other ^a
National Biodefense Analysis and Countermeasures Center	9,691	9,691	0	0	0	0	0	0	0
Department of Transportation	30,670	0	0	30,670	0	0	0	0	0
Center for Advanced Aviation System Development	30,670	0	0	30,670	0	0	0	0	0
Department of the Treasury	136,225	0	0	56,819	0	0	0	0	79,406
Center for Enterprise Modernization	136,225	0	0	56,819	0	0	0	0	79,406
Other agencies									
National Aeronautics and Space Administration	1,954,706	297	0	5,210	0	0	1,949,199	0	0
Jet Propulsion Laboratory	1,954,706	297	0	5,210	0	0	1,949,199	0	0
National Science Foundation	350,706	0	2	14,917	23	0	163	335,300	302
Green Bank Observatory	9,550	0	0	0	0	0	0	9,550	0
NSF's National Optical-Infrared Astronomy Research Laboratory	66,120	0	0	0	0	0	0	66,120	0
National Center for Atmospheric Research	128,812	0	2	250	0	0	0	128,260	300
National Radio Astronomy Observatory	98,513	0	0	0	0	0	163	98,350	0
National Solar Observatory	27,670	0	0	0	0	0	0	27,670	0
Science and Technology Policy Institute	20,042	0	0	14,667	23	0	0	5,350	2
Nuclear Regulatory Commission	25,183	0	0	25,183	0	0	0	0	0
Center for Nuclear Waste Regulatory Analyses	25,183	0	0	25,183	0	0	0	0	0

DHS = Department of Homeland Security; DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; FFRDC = federally funded research and development center; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation.

^a Other includes data for the Departments of the Interior, Transportation, the Treasury, and Veterans Affairs; the Environmental Protection Agency; and the Nuclear Regulatory Commission.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2 at https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables).

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 20. Federal obligations for R&D plant to federally funded research and development centers, by sponsoring agency and funding agency: FY 2024

(Dollars in thousands)

FFRDC	Total R&D	Funding agency	
		DOE	NASA
All agencies sponsoring FFRDCs	2,364,439	2,363,889	550
Departments			
Department of Energy	2,363,889	2,363,889	0
Ames Laboratory	10,475	10,475	0
Argonne National Laboratory	42,431	42,431	0
Brookhaven National Laboratory	133,220	133,220	0
Fermi National Accelerator Laboratory	411,839	411,839	0
Idaho National Laboratory	325,068	325,068	0
Lawrence Berkeley National Laboratory	197,516	197,516	0
Lawrence Livermore National Laboratory	208,801	208,801	0
Los Alamos National Laboratory	86,157	86,157	0
National Renewable Energy Laboratory	57,630	57,630	0
Oak Ridge National Laboratory	567,704	567,704	0
Pacific Northwest National Laboratory	26,523	26,523	0
Princeton Plasma Physics Laboratory	26,000	26,000	0
SLAC National Accelerator Laboratory	198,206	198,206	0
Sandia National Laboratories	31,621	31,621	0
Savannah River National Laboratory	2,455	2,455	0
Thomas Jefferson National Accelerator Facility	38,242	38,242	0
Other agencies			
National Aeronautics and Space Administration	550	0	550
Jet Propulsion Laboratory	550	0	550

DOE = Department of Energy; FFRDC = federally funded research and development center; NASA = National Aeronautics and Space Administration.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://ncses.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://ncses.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 21. Federal obligations for research, by agency and performer: FY 2024

(Dollars in thousands)

Agency	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
All agencies	99,555,831	24,486,202	11,789,557	13,003,008	40,503,323	8,640,416	639,354	493,972
Departments								
Department of Agriculture	3,198,676	1,771,944	0	46,009	1,288,204	63,496	20,359	8,663
Agricultural Marketing Service	14,628	0	0	0	4,134	250	10,244	0
Agricultural Research Service	1,608,703	1,351,998	0	0	227,564	20,700	199	8,242
Animal and Plant Health Inspection Service	33,818	21,026	0	159	8,425	3,194	1,014	0
Economic Research Service	90,612	89,757	0	0	160	695	0	0
Forest Service	265,383	220,374	0	607	34,523	2,022	7,436	421
National Agricultural Statistics Service	4,584	4,288	0	0	22	273	0	0
National Institute of Food and Agriculture	1,090,042	8,645	0	45,140	998,528	36,261	1,468	0
Natural Resources Conservation Service	90,907	75,855	0	103	14,850	100	0	0
Department of Commerce	1,934,407	1,383,591	23,292	62,959	436,112	21,139	6,811	502
Census Bureau	194,832	190,730	0	0	3,746	356	0	0
National Institute of Standards and Technology	972,426	742,782	23,291	32,095	161,141	9,703	2,926	488
National Oceanic and Atmospheric Administration	763,197	450,079	1	26,912	271,225	11,080	3,885	14
National Telecommunications and Information Administration	3,952	0	0	3,952	0	0	0	0
Department of Defense	13,186,716	5,835,316	818,094	3,656,522	2,270,175	540,412	2,324	63,872
Defense Advanced Research Projects Agency	1,809,632	112,237	98,428	1,062,934	418,919	103,492	0	13,622
Defense Health Agency	599,749	213,757	8,721	124,688	65,925	169,101	4	17,553
Department of the Air Force	5,072,972	3,749,938	51,200	491,592	613,318	166,028	396	500
Air Force	5,041,571	3,718,537	51,200	491,592	613,318	166,028	396	500
Space Force	31,402	31,402	0	0	0	0	0	0
Department of the Army	2,049,315	795,641	57,526	971,622	214,048	5,153	0	5,326
Department of the Navy	2,047,005	671,864	10,846	494,125	788,724	58,290	424	22,732
Other defense agencies	1,608,042	291,878	591,373	511,561	169,241	38,349	1,500	4,140
Department of Education	351,281	0	0	26,108	191,949	106,898	26,325	0
Department of Energy	13,835,288	1,536,097	8,762,152	1,399,342	1,854,679	158,551	122,182	2,286
Advanced Research Projects Agency—Energy	248,211	541	25,563	123,474	87,130	11,502	0	0
Electricity Delivery and Energy Reliability	82,893	489	70,110	9,385	942	1,710	257	0
Energy Efficiency and Renewable Energy	1,496,665	10,010	844,895	351,145	205,227	67,400	17,988	0
Environmental Management	10,795	16	7,673	1,914	1,191	0	0	0
Fossil Energy	1,484,208	981,219	106,259	0	274,528	51,158	69,998	1,046
National Nuclear Security Administration	2,964,941	275,069	2,358,408	311,574	19,891	0	0	0
Defense Programs	2,530,526	273,138	2,101,268	148,308	7,811	0	0	0

Table 21. Federal obligations for research, by agency and performer: FY 2024

(Dollars in thousands)

Agency	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
Naval Nuclear Propulsion Program	150,900	0	180	150,720	0	0	0	0
Office of Defense Nuclear Nonproliferation	283,515	1,930	256,960	12,546	12,080	0	0	0
Nuclear Energy	729,806	38,899	551,446	92,274	43,245	3,101	*	842
Office of Cybersecurity, Energy Security, and Emergency Response	104,361	76	44,417	11,929	31,256	16,682	0	0
Office of Science	6,713,409	229,779	4,753,381	497,647	1,191,268	6,996	33,940	398
Department of Health and Human Services	48,737,200	9,832,024	616,433	4,129,859	27,119,236	6,501,426	212,929	325,292
Administration for Children and Families	10,682	35	0	0	1,600	9,047	0	0
Administration for Community Living	112,987	0	0	3,785	76,469	31,734	1,000	0
Advanced Research Projects Agency for Health	1,039,001	33,957	32,661	346,694	555,339	64,100	0	6,250
Agency for Healthcare Research and Quality	337,445	46,928	0	144,403	115,908	30,111	95	0
Agency for Toxic Substances and Disease Registry	2,798	0	0	0	1,518	981	0	300
Biomedical Advanced Research and Development Authority	1,488,789	66,552	0	1,295,447	56,195	41,713	179	28,703
Centers for Disease Control and Prevention	363,517	61,815	0	11,705	189,189	31,233	53,988	15,588
Centers for Medicare and Medicaid Services	19,991	71	0	4,712	2,683	12,525	0	0
Food and Drug Administration	732,711	474,672	0	9,271	90,790	81,155	71,300	5,523
Health Resources and Services Administration	86,113	5,282	0	0	73,505	5,265	2,060	0
National Institutes of Health	44,508,166	9,140,152	583,772	2,288,676	25,955,958	6,186,371	84,308	268,929
Office of the Secretary of Health and Human Services	35,000	2,559	0	25,167	82	7,192	0	0
Office of the Assistant Secretary for Planning and Evaluation	35,000	2,559	0	25,167	82	7,192	0	0
Department of Homeland Security	236,813	67,401	26,476	80,872	37,909	19,744	0	4,411
Coast Guard	7,439	2,208	0	5,160	58	0	0	13
Countering Weapons of Mass Destruction Office	37,611	7,139	2,487	21,655	6,330	0	0	0
Science and Technology Directorate	191,513	58,054	23,739	54,057	31,521	19,744	0	4,398
Secret Service	250	0	250	0	0	0	0	0
Department of the Interior	456,790	364,426	426	7,796	70,059	5,337	8,063	684
Bureau of Indian Affairs	5,000	0	0	0	0	0	5,000	0
Bureau of Land Management	16,754	8,632	0	260	4,985	2,800	77	*
Bureau of Reclamation	26,297	8,035	426	5,311	8,800	1,905	1,819	0
Bureau of Safety and Environmental Enforcement	8,715	3,973	0	1,326	2,733	0	0	684
Fish and Wildlife Service	48,000	48,000	0	0	0	0	0	0
Geological Survey	345,659	294,216	0	899	48,747	631	1,167	0
National Park Service	6,365	1,570	0	0	4,795	0	0	0
Department of Justice	123,443	7,154	0	11,619	47,943	55,803	925	0

Table 21. Federal obligations for research, by agency and performer: FY 2024

(Dollars in thousands)

Agency	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
Bureau of Prisons	1,960	1,035	0	0	0	0	925	0
Office of Justice Programs	121,483	6,119	0	11,619	47,943	55,803	0	0
Department of Labor	2,354	1,050	0	1,304	0	0	0	0
Employee Benefits Security Administration	2,354	1,050	0	1,304	0	0	0	0
Department of State	22,925	22,925	0	0	0	0	0	0
Department of Transportation	881,652	187,466	18,550	283,763	169,734	38,115	179,260	4,765
Federal Aviation Administration	205,194	22,134	6,357	109,407	45,519	4,878	12,133	4,765
Federal Highway Administration	394,977	67,997	2,039	76,324	73,363	24,180	151,073	0
Federal Motor Carrier Safety Administration	10,853	3,400	250	6,779	0	424	0	0
Federal Railroad Administration	28,788	7,772	0	8,787	7,305	4,925	0	0
Federal Transit Administration	37,501	9,924	0	0	10,425	1,098	16,053	0
National Highway Traffic Safety Administration	107,687	9,328	8,925	59,489	29,223	722	0	0
Office of the Secretary of Transportation	75,813	57,440	0	18,373	0	0	0	0
Pipeline and Hazardous Materials Safety Administration	20,839	9,470	978	4,605	3,899	1,887	0	0
Department of the Treasury	121	0	0	121	0	0	0	0
Mint	121	0	0	121	0	0	0	0
Department of Veterans Affairs	1,833,187	1,753,780	79,406	0	0	0	0	0
Other agencies								
Agency for Global Media	9,449	2,916	0	6,534	0	0	0	0
Agency for International Development	199,571	18,504	0	7,013	100,644	16,076	0	57,334
Appalachian Regional Commission	1,190	0	0	713	325	152	0	0
Consumer Product Safety Commission	47	47	0	0	0	0	0	0
Environmental Protection Agency	414,880	232,343	848	124,135	48,450	9,083	0	21
Federal Trade Commission	834	834	0	0	0	0	0	0
National Aeronautics and Space Administration	6,161,201	1,187,284	1,075,598	2,431,122	1,274,270	178,646	1,903	12,378
National Science Foundation	6,995,225	61,335	335,486	670,074	5,555,901	313,163	47,214	12,052
Nuclear Regulatory Commission	72,668	1,984	32,795	13,296	22,882	0	0	1,712
Patient-Centered Outcomes Research Trust Fund	605,450	0	0	0	0	605,450	0	0
Postal Service	4,918	0	0	4,918	0	0	0	0
RESTORE Act Centers of Excellence Research Grants Program	6,556	0	0	0	0	0	6,556	0
Smithsonian Institution	168,350	168,350	0	0	0	0	0	0
Social Security Administration	96,639	49,434	0	22,372	14,849	5,485	4,500	0
Tennessee Valley Authority	18,000	0	0	16,560	0	1,440	0	0

* = amount greater than \$0 but less than \$500.

FFRDC = federally funded research and development center.

^a Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, and actual federal performance.

^b Higher education includes both public and private institutions as well as University Affiliated Research Centers.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 22. Preliminary federal obligations for research, by agency and performer: FY 2025

(Dollars in thousands)

Agency	Total	Intramural		Extramural				Non-U.S. performers
		Federal agencies ^a	FFRDCs	United States and U.S. territories				
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
All agencies	95,240,517	21,659,014	13,275,816	11,583,201	39,136,213	8,624,804	522,407	439,063
Departments								
Department of Agriculture	3,009,589	1,761,689	0	43,281	1,129,533	53,471	15,041	6,574
Agricultural Marketing Service	9,199	0	0	0	2,623	157	6,419	0
Agricultural Research Service	1,611,000	1,418,471	0	0	170,673	15,525	149	6,182
Animal and Plant Health Inspection Service	29,245	19,000	0	1,100	6,334	2,638	173	0
Economic Research Service	90,612	90,012	0	100	500	0	0	0
Forest Service	241,967	200,910	0	567	31,274	1,885	6,938	392
National Agricultural Statistics Service	5,000	4,928	0	0	72	0	0	0
National Institute of Food and Agriculture	1,000,000	7,931	0	41,411	916,045	33,266	1,346	0
Natural Resources Conservation Service	22,566	20,437	0	103	2,011	0	15	0
Department of Commerce	1,889,309	1,448,917	21,841	53,052	342,134	18,366	4,528	472
Census Bureau	194,832	190,730	0	0	3,746	356	0	0
National Institute of Standards and Technology	816,778	725,202	21,840	27,117	35,798	6,362	0	459
National Oceanic and Atmospheric Administration	872,879	532,985	1	21,115	302,590	11,648	4,528	13
National Telecommunications and Information Administration	4,820	0	0	4,820	0	0	0	0
Department of Defense	11,239,437	3,621,684	850,501	3,386,360	2,720,610	597,095	822	62,365
Defense Advanced Research Projects Agency	2,101,296	130,634	114,571	1,236,061	484,788	119,404	0	15,838
Defense Health Agency	510,304	206,178	9,877	107,033	46,987	129,099	3	11,127
Department of the Air Force	3,439,262	2,087,935	57,756	511,256	612,164	169,220	412	520
Air Force	3,401,292	2,049,965	57,756	511,256	612,164	169,220	412	520
Space Force	37,970	37,970	0	0	0	0	0	0
Department of the Army	1,603,685	264,133	56,816	586,891	591,943	94,025	0	9,877
Department of the Navy	1,968,066	648,129	10,412	474,343	756,993	55,958	407	21,823
Other defense agencies	1,616,824	284,675	601,068	470,776	227,734	29,388	0	3,181
Department of Education	351,281	0	0	26,108	191,949	106,898	26,325	0
Department of Energy	13,363,564	1,083,033	10,261,291	1,002,540	820,770	137,596	56,912	1,421
Advanced Research Projects Agency—Energy	345,000	752	35,531	171,623	121,107	15,988	0	0
Electricity Delivery and Energy Reliability	85,499	504	72,314	9,680	971	1,764	265	0
Energy Efficiency and Renewable Energy	1,496,665	10,010	844,895	351,145	205,227	67,400	17,988	0
Environmental Management	12,728	0	9,037	3,691	0	0	0	0
Fossil Energy	1,159,690	769,351	353,536	0	6,920	23,107	5,729	1,046
National Nuclear Security Administration	2,941,441	236,129	2,235,456	359,905	107,606	2,345	0	0
Defense Programs	2,535,483	234,511	1,988,501	223,586	86,541	2,345	0	0

Table 22. Preliminary federal obligations for research, by agency and performer: FY 2025

(Dollars in thousands)

Agency	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
Naval Nuclear Propulsion Program	125,414	0	180	125,234	0	0	0	0
Office of Defense Nuclear Nonproliferation	280,543	1,619	246,775	11,085	21,065	0	0	0
Nuclear Energy	504,992	37,566	437,108	28,360	0	1,583	0	375
Office of Cybersecurity, Energy Security, and Emergency Response	138,036	101	58,750	15,779	41,342	22,065	0	0
Office of Science	6,679,513	28,620	6,214,665	62,357	337,597	3,344	32,930	0
Department of Health and Human Services	47,666,621	9,727,010	598,894	3,417,124	26,883,910	6,499,211	206,968	333,503
Administration for Children and Families	10,733	35	0	0	1,700	8,998	0	0
Administration for Community Living	112,185	0	0	3,400	76,479	31,307	1,000	0
Advanced Research Projects Agency for Health	1,097,000	37,677	20,096	353,607	569,517	116,102	0	0
Agency for Healthcare Research and Quality	337,445	46,928	0	144,403	115,908	30,111	95	0
Agency for Toxic Substances and Disease Registry	2,798	0	0	0	1,518	981	0	300
Biomedical Advanced Research and Development Authority	819,408	73,096	0	613,276	42,581	43,326	0	47,129
Centers for Disease Control and Prevention	352,980	48,525	0	11,926	189,061	33,760	55,301	14,408
Centers for Medicare and Medicaid Services	20,391	72	0	4,806	2,737	12,776	0	0
Food and Drug Administration	667,181	432,220	0	8,442	82,670	73,897	64,923	5,029
Health Resources and Services Administration	79,889	5,721	0	0	66,950	5,158	2,060	0
National Institutes of Health	44,129,381	9,062,736	578,798	2,269,174	25,734,789	6,133,657	83,590	266,638
Office of the Secretary of Health and Human Services	37,229	20,000	0	8,089	0	9,140	0	0
Office of the Assistant Secretary for Planning and Evaluation	37,229	20,000	0	8,089	0	9,140	0	0
Department of Homeland Security	225,567	63,256	28,414	75,287	30,429	22,696	0	5,485
Coast Guard	9,196	2,756	0	6,440	0	0	0	0
Countering Weapons of Mass Destruction Office	8,278	0	0	8,278	0	0	0	0
Cybersecurity and Infrastructure Security Agency	793	793	0	0	0	0	0	0
Science and Technology Directorate	205,000	59,207	27,414	60,169	30,029	22,696	0	5,485
Secret Service	2,300	500	1,000	400	400	0	0	0
Department of the Interior	404,208	320,559	458	4,957	64,403	5,172	8,311	349
Bureau of Indian Affairs	5,000	0	0	0	0	0	5,000	0
Bureau of Land Management	12,499	4,951	8	131	5,146	2,043	220	0
Bureau of Reclamation	26,547	11,461	450	3,462	6,746	2,500	1,928	0
Bureau of Safety and Environmental Enforcement	3,382	2,109	0	468	456	0	0	349
Fish and Wildlife Service	6,000	6,000	0	0	0	0	0	0
Geological Survey	344,415	293,157	0	895	48,571	629	1,163	0
National Park Service	6,365	2,880	0	0	3,484	0	0	0

Table 22. Preliminary federal obligations for research, by agency and performer: FY 2025

(Dollars in thousands)

Agency	Total	Intramural		Extramural				
				United States and U.S. territories				Non-U.S. performers
		Federal agencies ^a	FFRDCs	Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
Department of Justice	120,674	5,270	0	8,143	50,150	56,361	750	0
Bureau of Prisons	1,805	1,055	0	0	0	0	750	0
Office of Justice Programs	118,869	4,215	0	8,143	50,150	56,361	0	0
Department of Labor	1,857	1,113	0	744	0	0	0	0
Employee Benefits Security Administration	1,857	1,113	0	744	0	0	0	0
Department of Transportation	853,804	161,097	8,016	336,793	147,477	41,809	153,704	4,908
Federal Aviation Administration	211,350	22,798	6,547	112,689	46,885	5,024	12,497	4,908
Federal Highway Administration	391,217	46,019	636	146,001	56,488	1,272	140,802	0
Federal Motor Carrier Safety Administration	7,553	2,230	0	5,232	10	81	0	0
Federal Railroad Administration	15,400	2,000	0	8,000	3,000	2,000	400	0
Federal Transit Administration	5,254	0	0	0	3,769	1,480	5	0
National Highway Traffic Safety Administration	123,007	18,853	0	40,878	33,325	29,951	0	0
Office of the Secretary of Transportation	78,107	61,292	0	16,815	0	0	0	0
Pipeline and Hazardous Materials Safety Administration	21,916	7,904	833	7,179	4,000	2,000	0	0
Department of the Treasury	83	0	0	36	0	0	0	47
Mint	83	0	0	36	0	0	0	47
Department of Veterans Affairs	1,844,000	1,764,000	80,000	0	0	0	0	0
Other agencies								
Appalachian Regional Commission	237	0	0	13	0	224	0	0
Consumer Product Safety Commission	1	1	0	0	0	0	0	0
Environmental Protection Agency	415,027	239,166	0	120,561	43,927	11,374	0	0
Federal Trade Commission	347	347	0	0	0	0	0	0
National Aeronautics and Space Administration	6,137,979	1,171,957	1,083,505	2,411,137	1,277,656	179,542	1,909	12,272
National Science Foundation	6,825,141	60,894	324,114	659,625	5,415,424	306,500	46,919	11,666
Nuclear Regulatory Commission	40,667	1,275	18,782	7,334	13,276	0	0	0
Patient-Centered Outcomes Research Trust Fund	582,864	0	0	0	0	582,864	0	0
Postal Service	2,837	0	0	2,837	0	0	0	0
RESTORE Act Centers of Excellence Research Grants Program	4,783	0	0	0	4,565	0	218	0
Smithsonian Institution	182,000	182,000	0	0	0	0	0	0
Social Security Administration	57,641	45,746	0	7,950	0	3,945	0	0
Tennessee Valley Authority	21,000	0	0	19,320	0	1,680	0	0

FFRDC = federally funded research and development center.

^a Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, and actual federal performance.

^b Higher education includes both public and private institutions as well as University Affiliated Research Centers.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 23. Federal obligations for research, by detailed field of R&D: FYs 2024–25

(Dollars in thousands)

Field	2024	2025 (preliminary)
All fields	99,555,831	95,240,517
Computer and information sciences	6,663,906	5,088,411
Geosciences, atmospheric sciences, and ocean sciences	5,692,611	5,854,183
Atmospheric science and meteorology	1,018,651	NA
Geological and earth sciences	368,890	NA
Ocean sciences and marine sciences	959,193	NA
Other geosciences, atmospheric sciences, and ocean sciences	3,345,877	NA
Life sciences	38,621,587	37,374,038
Agricultural sciences	1,255,245	NA
Biological and biomedical sciences	19,370,505	NA
Health sciences	13,507,915	NA
Natural resources and conservation	406,970	NA
Other life sciences	4,080,952	NA
Mathematics and statistics	865,374	891,481
Physical sciences	12,759,020	12,502,808
Astronomy and astrophysics	1,255,348	NA
Chemistry	2,621,709	NA
Materials science	638,176	NA
Physics	3,973,701	NA
Other physical sciences	4,270,086	NA
Psychology	5,286,266	5,236,510
Biological aspects	20,928	NA
Social aspects	33,199	NA
Other psychological sciences	5,232,139	NA
Social sciences	3,137,516	3,053,083
Anthropology	20,229	NA
Economics	297,513	NA
Political science and government	8,534	NA
Sociology, demography, and population studies	138,644	NA
Other social sciences	2,672,596	NA
Engineering	17,551,088	16,345,335
Aerospace, aeronautical, and astronautical engineering	1,358,019	NA
Bioengineering and biomedical engineering	307,583	NA
Chemical engineering	1,387,592	NA
Civil engineering	621,801	NA
Electrical, electronics, and communications engineering	944,100	NA
Industrial and manufacturing engineering	2,012,838	NA
Mechanical engineering	507,205	NA
Metallurgical and materials engineering	827,937	NA
Other engineering	9,584,013	NA
Other fields	8,978,464	8,894,669
Business management and business administration	140,506	NA
Communication and communications technologies	58,490	NA
Education research	1,094,766	NA
Humanities	24,507	NA
Law	9,111	NA
Social work	2,007	NA
Visual and performing arts	0	NA
All other fields	7,649,075	NA

NA = not available; agency did not provide data.

Note(s):

Because of rounding, detail may not add to total.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024-25.

Table 24. Federal obligations for research, by agency and field of R&D: FY 2024

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
All agencies	99,555,831	6,663,906	5,692,611	38,621,587	865,374	12,759,020	5,286,266	3,137,516	17,551,088	8,978,464
Departments										
Department of Agriculture	3,198,676	45,992	31,450	2,485,531	11,770	141,187	5,553	216,295	142,444	118,455
Agricultural Marketing Service	14,628	0	0	14,628	0	0	0	0	0	0
Agricultural Research Service	1,608,703	2,091	7,078	1,477,915	0	103,279	0	3,861	14,478	0
Animal and Plant Health Inspection Service	33,818	0	0	33,818	0	0	0	0	0	0
Economic Research Service	90,612	0	0	0	0	0	0	90,612	0	0
Forest Service	265,383	0	5,663	204,444	0	7,391	0	37,724	10,161	0
National Agricultural Statistics Service	4,584	0	0	0	4,584	0	0	0	0	0
National Institute of Food and Agriculture	1,090,042	43,901	18,708	663,818	7,186	30,517	5,553	84,099	117,804	118,455
Natural Resources Conservation Service	90,907	0	0	90,907	0	0	0	0	0	0
Department of Commerce	1,934,407	233,247	651,175	102,529	19,765	322,728	15	186,774	403,385	14,789
Census Bureau	194,832	10,675	0	0	15,256	0	15	168,821	0	65
National Institute of Standards and Technology	972,426	218,377	12,024	54,830	4,300	293,575	0	374	388,947	0
National Oceanic and Atmospheric Administration	763,197	4,195	639,151	47,699	210	29,153	0	17,579	10,487	14,724
National Telecommunications and Information Administration	3,952	0	0	0	0	0	0	0	3,952	0
Department of Defense	13,186,716	3,419,531	572,574	1,372,900	121,153	622,879	105,253	52,410	5,112,874	1,807,143
Defense Advanced Research Projects Agency	1,809,632	936,350	20,896	212,684	12,744	133,010	10,792	27,180	364,202	91,776
Defense Health Agency	599,749	0	0	595,220	0	0	1,435	0	0	3,094
Department of the Air Force	5,072,972	1,784,458	225	1,316	815	8,869	87	593	2,338,507	938,101
Air Force	5,041,571	1,754,672	225	1,316	815	8,869	87	593	2,338,507	936,486
Space Force	31,402	29,786	0	0	0	0	0	0	0	1,615
Department of the Army	2,049,315	228,296	14,990	352,842	51,040	50,289	76,787	2,819	749,089	523,163
Department of the Navy	2,047,005	181,908	527,644	53,939	13,748	206,488	10,903	4,790	857,010	190,575
Other defense agencies	1,608,042	288,518	8,819	156,899	42,806	224,223	5,249	17,028	804,065	60,435
Department of Education	351,281	0	0	0	0	0	0	0	0	351,281
Department of Energy	13,835,288	1,706,089	451,236	609,259	74,124	5,918,391	0	0	4,532,900	543,289
Advanced Research Projects Agency –Energy	248,211	11,778	284	7,023	0	27,032	0	0	202,094	0
Electricity Delivery and Energy Reliability	82,893	0	0	0	0	0	0	0	82,893	0

Table 24. Federal obligations for research, by agency and field of R&D: FY 2024

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
Energy Efficiency and Renewable Energy	1,496,665	0	0	0	0	0	0	0	1,496,665	0
Environmental Management	10,795	0	10,795	0	0	0	0	0	0	0
Fossil Energy	1,484,208	0	141,000	0	0	235,989	0	0	1,107,219	0
National Nuclear Security Administration	2,964,941	654,273	6,523	731	14,508	1,546,451	0	0	736,505	5,950
Defense Programs	2,530,526	638,310	0	0	0	1,315,758	0	0	576,458	0
Naval Nuclear Propulsion Program	150,900	0	0	0	0	0	0	0	150,900	0
Office of Defense Nuclear Nonproliferation	283,515	15,964	6,523	731	14,508	230,694	0	0	9,147	5,950
Nuclear Energy	729,806	0	0	0	0	0	0	0	729,806	0
Office of Cybersecurity, Energy Security, and Emergency Response	104,361	104,361	0	0	0	0	0	0	0	0
Office of Science	6,713,409	935,676	292,635	601,506	59,616	4,108,918	0	0	177,718	537,339
Department of Health and Human Services	48,737,200	295,406	866,298	30,310,594	388,275	1,459,808	5,100,820	2,232,724	4,109,972	3,973,303
Administration for Children and Families	10,682	0	0	0	0	0	0	10,682	0	0
Administration for Community Living	112,987	0	0	0	0	0	0	112,987	0	0
Advanced Research Projects Agency for Health	1,039,001	246,031	0	553,346	0	27,232	0	0	164,521	47,871
Agency for Healthcare Research and Quality	337,445	49,189	0	192,974	0	0	7,799	20,813	803	65,867
Agency for Toxic Substances and Disease Registry	2,798	0	2,798	0	0	0	0	0	0	0
Biomedical Advanced Research and Development Authority	1,488,789	0	0	1,488,789	0	0	0	0	0	0
Centers for Disease Control and Prevention	363,517	186	657	252,764	0	1,716	652	48,693	24,200	34,651
Centers for Medicare and Medicaid Services	19,991	0	0	19,991	0	0	0	0	0	0
Food and Drug Administration	732,711	0	0	732,711	0	0	0	0	0	0
Health Resources and Services Administration	86,113	0	0	80,942	0	0	0	0	0	5,171
National Institutes of Health	44,508,166	0	862,842	26,989,079	388,275	1,430,860	5,092,368	2,004,549	3,920,449	3,819,744
Office of the Secretary of Health and Human Services	35,000	0	0	0	0	0	0	35,000	0	0
Office of the Assistant Secretary for Planning and Evaluation	35,000	0	0	0	0	0	0	35,000	0	0
Department of Homeland Security	236,813	30,096	15,221	46,212	0	31,917	0	5,393	94,112	13,862

Table 24. Federal obligations for research, by agency and field of R&D: FY 2024

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
Coast Guard	7,439	256	0	220	0	2	0	0	6,757	203
Countering Weapons of Mass Destruction Office	37,611	7,048	0	12,771	0	17,793	0	0	0	0
Science and Technology Directorate	191,513	22,542	15,221	33,222	0	14,121	0	5,393	87,355	13,659
Secret Service	250	250	0	0	0	0	0	0	0	0
Department of the Interior	456,790	0	142,673	266,379	0	5,712	281	10,683	30,812	250
Bureau of Indian Affairs	5,000	0	0	5,000	0	0	0	0	0	0
Bureau of Land Management	16,754	0	0	16,754	0	0	0	0	0	0
Bureau of Reclamation	26,297	0	0	3,084	0	0	0	0	23,213	0
Bureau of Safety and Environmental Enforcement	8,715	0	1,221	0	0	634	0	0	6,860	0
Fish and Wildlife Service	48,000	0	0	48,000	0	0	0	0	0	0
Geological Survey	345,659	0	141,452	187,426	0	5,078	281	10,683	739	0
National Park Service	6,365	0	0	6,115	0	0	0	0	0	250
Department of Justice	123,443	940	0	6,312	304	14,749	412	98,019	520	2,187
Bureau of Prisons	1,960	0	0	0	0	0	0	0	0	1,960
Office of Justice Programs	121,483	940	0	6,312	304	14,749	412	98,019	520	227
Department of Labor	2,354	0	0	0	0	0	0	2,354	0	0
Employee Benefits Security Administration	2,354	0	0	0	0	0	0	2,354	0	0
Department of State	22,925	0	0	21,779	0	0	0	1,146	0	0
Department of Transportation	881,652	11,235	16,262	5,879	5,402	12,147	42,917	230	712,809	74,771
Federal Aviation Administration	205,194	8,943	16,262	5,879	4,902	0	15,222	0	132,973	21,014
Federal Highway Administration	394,977	0	0	0	0	0	0	0	394,977	0
Federal Motor Carrier Safety Administration	10,853	0	0	0	0	10,853	0	0	0	0
Federal Railroad Administration	28,788	2,292	0	0	0	0	0	0	23,766	2,731
Federal Transit Administration	37,501	0	0	0	0	0	0	0	32,383	5,118
National Highway Traffic Safety Administration	107,687	0	0	0	0	0	27,696	0	55,238	24,754
Office of the Secretary of Transportation	75,813	0	0	0	0	0	0	0	56,980	18,833
Pipeline and Hazardous Materials Safety Administration	20,839	0	0	0	500	1,293	0	230	16,493	2,322
Department of the Treasury	121	0	0	0	0	0	0	0	121	0
Mint	121	0	0	0	0	0	0	0	121	0
Department of Veterans Affairs	1,833,187	0	0	1,833,187	0	0	0	0	0	0
Other agencies										
Agency for Global Media	9,449	0	0	0	0	0	0	9,449	0	0

Table 24. Federal obligations for research, by agency and field of R&D: FY 2024

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
Agency for International Development	199,571	0	0	0	0	0	0	0	0	199,571
Appalachian Regional Commission	1,190	0	0	0	0	0	0	1,190	0	0
Consumer Product Safety Commission	47	0	0	0	0	0	0	0	47	0
Environmental Protection Agency	414,880	5,683	170,997	163,904	3,155	9,906	0	2,397	58,839	0
Federal Trade Commission	834	50	0	14	0	0	0	755	0	15
National Aeronautics and Space Administration	6,161,201	0	1,762,563	32,907	0	2,952,489	0	0	1,235,976	177,267
National Science Foundation	6,995,225	915,117	964,805	739,260	241,426	1,233,788	31,015	176,517	1,015,521	1,677,776
Nuclear Regulatory Commission	72,668	521	0	0	0	0	0	0	72,147	0
Patient-Centered Outcomes Research Trust Fund	605,450	0	0	605,450	0	0	0	0	0	0
Postal Service	4,918	0	0	0	0	0	0	0	4,918	0
RESTORE Act Centers of Excellence Research Grants Program	6,556	0	0	6,556	0	0	0	0	0	0
Smithsonian Institution	168,350	0	47,357	12,935	0	33,320	0	44,539	5,694	24,504
Social Security Administration	96,639	0	0	0	0	0	0	96,639	0	0
Tennessee Valley Authority	18,000	0	0	0	0	0	0	0	18,000	0

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 25. Preliminary federal obligations for research, by agency and field of R&D: FY 2025

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
All agencies	95,240,517	5,088,411	5,854,183	37,374,038	891,481	12,502,808	5,236,510	3,053,083	16,345,335	8,894,669
Departments										
Department of Agriculture	3,009,589	42,369	22,329	2,343,512	11,592	138,165	5,094	206,017	131,839	108,670
Agricultural Marketing Service	9,199	0	0	9,199	0	0	0	0	0	0
Agricultural Research Service	1,611,000	2,094	0	1,487,114	0	103,426	0	3,866	14,499	0
Animal and Plant Health Inspection Service	29,245	0	0	29,245	0	0	0	0	0	0
Economic Research Service	90,612	0	0	0	0	0	0	90,612	0	0
Forest Service	241,967	0	5,167	186,403	0	6,743	0	34,387	9,267	0
National Agricultural Statistics Service	5,000	0	0	0	5,000	0	0	0	0	0
National Institute of Food and Agriculture	1,000,000	40,275	17,163	608,984	6,593	27,996	5,094	77,152	108,073	108,670
Natural Resources Conservation Service	22,566	0	0	22,566	0	0	0	0	0	0
Department of Commerce	1,889,309	205,572	755,544	97,533	21,871	265,780	15	182,146	342,505	18,344
Census Bureau	194,832	10,675	0	0	15,256	0	15	168,821	0	65
National Institute of Standards and Technology	816,778	190,574	4,575	51,887	4,479	237,807	0	351	327,106	0
National Oceanic and Atmospheric Administration	872,879	4,323	750,969	45,646	2,136	27,974	0	12,973	10,579	18,279
National Telecommunications and Information Administration	4,820	0	0	0	0	0	0	0	4,820	0
Department of Defense	11,239,437	1,860,146	569,440	1,320,265	145,604	647,006	108,780	45,884	4,707,398	1,834,915
Defense Advanced Research Projects Agency	2,101,296	1,087,538	24,418	246,060	14,409	154,112	12,399	31,761	423,623	106,977
Defense Health Agency	510,304	0	0	505,109	0	0	1,148	0	0	4,047
Department of the Air Force	3,439,262	50,289	234	1,369	848	9,223	91	617	2,409,660	966,932
Air Force	3,401,292	12,321	234	1,369	848	9,223	91	617	2,409,660	966,930
Space Force	37,970	37,968	0	0	0	0	0	0	0	2
Department of the Army	1,603,685	228,296	14,990	352,842	51,040	50,289	76,787	2,819	333,429	493,193
Department of the Navy	1,968,066	176,883	507,593	51,781	13,198	198,229	10,467	4,598	822,356	182,960
Other defense agencies	1,616,824	317,141	22,204	163,103	66,110	235,153	7,888	6,088	718,331	80,805
Department of Education	351,281	0	0	0	0	0	0	0	0	351,281
Department of Energy	13,363,564	1,725,373	388,988	600,946	82,382	6,043,311	0	0	3,981,253	541,311
Advanced Research Projects Agency –Energy	345,000	16,371	394	9,761	0	37,573	0	0	280,900	0
Electricity Delivery and Energy Reliability	85,499	0	0	0	0	0	0	0	85,499	0

Table 25. Preliminary federal obligations for research, by agency and field of R&D: FY 2025

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
Energy Efficiency and Renewable Energy	1,496,665	0	0	0	0	0	0	0	1,496,665	0
Environmental Management	12,728	0	12,728	0	0	0	0	0	0	0
Fossil Energy	1,159,690	0	110,171	0	0	184,391	0	0	865,129	0
National Nuclear Security Administration	2,941,441	622,913	6,901	0	14,200	1,543,759	0	0	748,068	5,600
Defense Programs	2,535,483	603,910	0	0	0	1,317,776	0	0	613,798	0
Naval Nuclear Propulsion Program	125,414	0	0	0	0	0	0	0	125,414	0
Office of Defense Nuclear Nonproliferation	280,543	19,003	6,901	0	14,200	225,983	0	0	8,856	5,600
Nuclear Energy	504,992	0	0	0	0	0	0	0	504,992	0
Office of Cybersecurity, Energy Security, and Emergency Response	138,036	138,036	0	0	0	0	0	0	0	0
Office of Science	6,679,513	948,053	258,794	591,185	68,182	4,277,588	0	0	0	535,711
Department of Health and Human Services	47,666,621	309,119	858,343	29,373,963	387,248	1,448,558	5,057,084	2,216,984	4,071,665	3,943,657
Administration for Children and Families	10,733	0	0	0	0	0	0	10,733	0	0
Administration for Community Living	112,185	0	0	0	0	0	0	112,185	0	0
Advanced Research Projects Agency for Health	1,097,000	259,765	0	584,235	0	28,752	0	0	173,705	50,543
Agency for Healthcare Research and Quality	337,445	49,189	0	192,974	0	0	7,799	20,813	803	65,867
Agency for Toxic Substances and Disease Registry	2,798	0	2,798	0	0	0	0	0	0	0
Biomedical Advanced Research and Development Authority	819,408	0	0	819,408	0	0	0	0	0	0
Centers for Disease Control and Prevention	352,980	164	45	256,096	2,278	1,123	254	48,535	10,073	34,411
Centers for Medicare and Medicaid Services	20,391	0	0	20,391	0	0	0	0	0	0
Food and Drug Administration	667,181	0	0	667,181	0	0	0	0	0	0
Health Resources and Services Administration	79,889	0	0	74,289	0	0	0	0	0	5,600
National Institutes of Health	44,129,381	0	855,499	26,759,390	384,971	1,418,683	5,049,030	1,987,489	3,887,084	3,787,236
Office of the Secretary of Health and Human Services	37,229	0	0	0	0	0	0	37,229	0	0
Office of the Assistant Secretary for Planning and Evaluation	37,229	0	0	0	0	0	0	37,229	0	0
Department of Homeland Security	225,567	35,505	30,700	47,259	0	37,306	0	16,000	35,546	23,251

Table 25. Preliminary federal obligations for research, by agency and field of R&D: FY 2025

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
Appalachian Regional Commission	237	0	0	0	0	0	0	237	0	0
Consumer Product Safety Commission	1	0	0	0	0	0	0	0	1	0
Environmental Protection Agency	415,027	5,685	171,058	163,962	3,156	9,910	0	2,398	58,860	0
Federal Trade Commission	347	0	0	15	0	0	0	332	0	0
National Aeronautics and Space Administration	6,137,979	0	1,915,325	35,065	0	2,652,009	0	0	1,220,939	314,641
National Science Foundation	6,825,141	894,000	932,779	715,065	233,272	1,193,126	29,964	170,623	1,000,709	1,655,603
Nuclear Regulatory Commission	40,667	481	0	0	0	0	0	0	40,186	0
Patient-Centered Outcomes Research Trust Fund	582,864	0	0	582,864	0	0	0	0	0	0
Postal Service	2,837	0	0	0	0	0	0	0	2,837	0
RESTORE Act Centers of Excellence Research Grants Program	4,783	0	0	4,783	0	0	0	0	0	0
Smithsonian Institution	182,000	0	51,197	13,984	0	36,022	0	48,150	6,156	26,491
Social Security Administration	57,641	0	0	0	0	0	0	57,641	0	0
Tennessee Valley Authority	21,000	0	0	0	0	0	0	0	21,000	0

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 26. Federal obligations for basic research, by agency and performer: FY 2024

(Dollars in thousands)

Agency	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories			Non-U.S. performers	
				Businesses	Higher education ^b	Nonprofit organizations		State and local governments
All agencies	47,493,585	10,069,051	6,621,796	4,668,384	22,047,213	3,791,083	110,752	185,307
Departments								
Department of Agriculture	1,555,396	845,106	0	26,613	638,159	35,966	4,973	4,579
Agricultural Research Service	893,724	751,110	0	0	126,424	11,500	110	4,579
Animal and Plant Health Inspection Service	11,486	1,184	0	139	6,445	2,866	853	0
Forest Service	108,711	89,009	0	308	15,871	261	3,262	0
National Institute of Food and Agriculture	541,111	3,803	0	26,165	489,056	21,339	748	0
Natural Resources Conservation Service	363	0	0	0	363	0	0	0
Department of Commerce	355,423	286,862	0	3,447	60,703	3,374	963	74
National Institute of Standards and Technology	355,423	286,862	0	3,447	60,703	3,374	963	74
Department of Defense	4,692,643	2,355,767	56,508	1,089,762	1,003,752	164,716	368	21,770
Defense Advanced Research Projects Agency	352,404	13,783	11,823	159,305	125,010	40,376	0	2,107
Defense Health Agency	49,239	29,095	1,362	12,514	1,409	4,274	0	585
Department of the Air Force	2,715,829	1,785,713	0	480,908	367,247	81,941	20	0
Air Force	2,684,428	1,754,311	0	480,908	367,247	81,941	20	0
Space Force	31,402	31,402	0	0	0	0	0	0
Department of the Army	524,159	267,097	30,644	221,617	0	0	0	4,801
Department of the Navy	684,855	227,856	2,591	46,999	387,143	6,930	348	12,988
Other defense agencies	366,157	32,222	10,089	168,418	122,942	31,196	0	1,289
Department of Education	28,226	0	0	1,787	22,555	3,883	0	0
Department of Energy	6,681,089	229,840	4,879,492	328,031	1,202,030	7,311	33,987	398
Electricity Delivery and Energy Reliability	15,247	90	12,895	1,726	173	315	47	0
National Nuclear Security Administration	127,872	198	113,216	3,870	10,588	0	0	0
Office of Defense Nuclear Nonproliferation	127,872	198	113,216	3,870	10,588	0	0	0
Office of Science	6,537,971	229,552	4,753,381	322,435	1,191,268	6,996	33,940	398
Department of Health and Human Services	22,794,933	4,651,352	297,724	1,173,422	13,316,489	3,172,630	44,852	138,464
Centers for Disease Control and Prevention	84,553	29,922	0	1,486	45,617	4,362	1,855	1,310
Centers for Medicare and Medicaid Services	19,991	71	0	4,712	2,683	12,525	0	0
Health Resources and Services Administration	34,305	2,962	0	0	30,650	693	0	0
National Institutes of Health	22,656,084	4,618,397	297,724	1,167,225	13,237,539	3,155,049	42,997	137,154
Department of Homeland Security	72,292	23,616	5,586	18,725	20,993	3,372	0	0
Countering Weapons of Mass Destruction Office	12,834	532	1,502	6,047	4,753	0	0	0
Science and Technology Directorate	59,208	23,084	3,834	12,679	16,240	3,372	0	0
Secret Service	250	0	250	0	0	0	0	0
Department of the Interior	43,857	42,297	0	272	957	330	0	*
Bureau of Land Management	2,036	787	0	0	918	330	0	*

Table 26. Federal obligations for basic research, by agency and performer: FY 2024

(Dollars in thousands)

Agency	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories			Non-U.S. performers	
				Businesses	Higher education ^b	Nonprofit organizations		State and local governments
Bureau of Safety and Environmental Enforcement	1,267	956	0	272	39	0	0	0
Geological Survey	40,554	40,554	0	0	0	0	0	0
Department of Justice	14,069	1,280	0	1,528	8,761	2,500	0	0
Office of Justice Programs	14,069	1,280	0	1,528	8,761	2,500	0	0
Department of State	1,146	1,146	0	0	0	0	0	0
Department of Transportation	127,043	63,847	0	40,693	22,504	0	0	0
National Highway Traffic Safety Administration	44,482	0	0	21,978	22,504	0	0	0
Office of the Secretary of Transportation	75,813	57,440	0	18,373	0	0	0	0
Pipeline and Hazardous Materials Safety Administration	6,748	6,407	0	342	0	0	0	0
Department of Veterans Affairs	795,235	715,829	79,406	0	0	0	0	0
Other agencies								
Agency for International Development	2,909	0	0	371	1,355	533	0	650
National Aeronautics and Space Administration	4,356,036	651,498	967,594	1,531,435	1,042,737	153,479	1,566	7,726
National Science Foundation	5,804,939	32,260	335,486	452,298	4,706,218	242,989	24,042	11,646
Smithsonian Institution	168,350	168,350	0	0	0	0	0	0

* = amount greater than \$0 but less than \$500.

FFRDC = federally funded research and development center.

^a Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, and actual federal performance.

^b Higher education includes both public and private institutions as well as University Affiliated Research Centers.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 27. Preliminary federal obligations for basic research, by agency and performer: FY 2025

(Dollars in thousands)

Agency	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories			Non-U.S. performers	
				Businesses	Higher education ^b	Nonprofit organizations		State and local governments
All agencies	45,361,068	7,831,544	8,076,271	4,316,012	21,073,002	3,774,821	106,327	183,091
Departments								
Department of Agriculture	1,499,495	874,345	0	24,292	562,661	30,813	3,950	3,434
Agricultural Research Service	895,000	788,040	0	0	94,818	8,625	83	3,434
Animal and Plant Health Inspection Service	8,792	1,000	0	0	5,292	2,367	133	0
Forest Service	99,289	81,816	0	288	13,892	244	3,049	0
National Institute of Food and Agriculture	496,414	3,489	0	24,004	448,658	19,577	686	0
Department of Commerce	298,057	284,429	0	2,563	8,639	2,354	0	71
National Institute of Standards and Technology	298,057	284,429	0	2,563	8,639	2,354	0	71
Department of Defense	3,013,668	342,706	68,890	1,043,761	1,352,824	181,190	355	23,940
Defense Advanced Research Projects Agency	398,429	15,584	13,367	180,111	141,337	45,649	0	2,382
Defense Health Agency	39,771	22,051	1,026	9,537	1,069	5,644	0	444
Department of the Air Force	995,532	45,141	0	500,145	368,094	82,131	21	0
Air Force	957,562	7,171	0	500,145	368,094	82,131	21	0
Space Force	37,970	37,970	0	0	0	0	0	0
Department of the Army	494,190	7,901	36,340	138,725	284,091	18,628	0	8,505
Department of the Navy	660,401	221,881	2,487	45,103	371,475	6,653	334	12,468
Other defense agencies	425,346	30,149	15,671	170,141	186,758	22,486	0	141
Department of Education	28,226	0	0	1,787	22,555	3,883	0	0
Department of Energy	6,814,866	28,870	6,325,521	66,288	357,610	3,607	32,970	0
Electricity Delivery and Energy Reliability	12,753	75	10,786	1,444	145	263	40	0
National Nuclear Security Administration	122,601	175	100,070	2,488	19,868	0	0	0
Office of Defense Nuclear Nonproliferation	122,601	175	100,070	2,488	19,868	0	0	0
Office of Science	6,679,513	28,620	6,214,665	62,357	337,597	3,344	32,930	0
Department of Health and Human Services	22,458,606	4,583,882	293,605	1,155,885	13,116,374	3,128,054	44,239	136,567
Centers for Disease Control and Prevention	61,529	26,298	0	0	28,911	3,173	1,836	1,310
Centers for Medicare and Medicaid Services	20,391	72	0	4,806	2,737	12,776	0	0
Health Resources and Services Administration	34,000	3,000	0	0	30,300	700	0	0
National Institutes of Health	22,342,687	4,554,512	293,605	1,151,079	13,054,426	3,111,406	42,402	135,257
Department of Homeland Security	44,580	15,695	2,990	12,245	11,371	2,278	0	0
Countering Weapons of Mass Destruction Office	3,680	0	0	3,680	0	0	0	0
Science and Technology Directorate	40,000	15,595	2,590	8,566	10,971	2,278	0	0
Secret Service	900	100	400	0	400	0	0	0
Department of the Interior	42,924	41,645	0	154	462	664	0	0
Bureau of Land Management	1,699	595	0	0	440	664	0	0
Bureau of Safety and Environmental Enforcement	817	641	0	154	22	0	0	0

Table 27. Preliminary federal obligations for basic research, by agency and performer: FY 2025

(Dollars in thousands)

Agency	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories			Non-U.S. performers	
				Businesses	Higher education ^b	Nonprofit organizations		State and local governments
Geological Survey	40,408	40,408	0	0	0	0	0	0
Department of Justice	14,007	1,090	0	1,543	8,849	2,525	0	0
Office of Justice Programs	14,007	1,090	0	1,543	8,849	2,525	0	0
Department of Transportation	143,162	65,650	833	18,954	28,521	29,204	0	0
Federal Highway Administration	793	0	0	793	0	0	0	0
National Highway Traffic Safety Administration	57,725	0	0	0	28,521	29,204	0	0
Office of the Secretary of Transportation	78,107	61,292	0	16,815	0	0	0	0
Pipeline and Hazardous Materials Safety Administration	6,537	4,358	833	1,346	0	0	0	0
Department of Veterans Affairs	800,000	720,000	80,000	0	0	0	0	0
Other agencies								
National Aeronautics and Space Administration	4,413,316	660,065	980,318	1,551,573	1,056,449	155,497	1,587	7,827
National Science Foundation	5,608,162	31,167	324,114	436,966	4,546,686	234,752	23,227	11,251
Smithsonian Institution	182,000	182,000	0	0	0	0	0	0

FFRDC = federally funded research and development center.

^a Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, and actual federal performance.

^b Higher education includes both public and private institutions as well as University Affiliated Research Centers.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 28. Federal obligations for basic research, by detailed field of R&D: FYs 2024–25

(Dollars in thousands)

Field	2024	2025 (preliminary)
All fields	47,493,585	45,361,068
Computer and information sciences	3,892,726	2,179,182
Geosciences, atmospheric sciences, and ocean sciences	3,494,035	3,577,094
Atmospheric science and meteorology	545,946	NA
Geological and earth sciences	292,292	NA
Ocean sciences and marine sciences	463,952	NA
Other geosciences, atmospheric sciences, and ocean sciences	2,191,845	NA
Life sciences	17,606,212	17,348,092
Agricultural sciences	676,318	NA
Biological and biomedical sciences	9,207,673	NA
Health sciences	5,652,345	NA
Natural resources and conservation	16,367	NA
Other life sciences	2,053,508	NA
Mathematics and statistics	585,476	605,928
Physical sciences	9,446,936	9,340,099
Astronomy and astrophysics	1,248,508	NA
Chemistry	1,475,911	NA
Materials science	397,237	NA
Physics	2,828,827	NA
Other physical sciences	3,496,452	NA
Psychology	2,661,016	2,627,193
Biological aspects	15,763	NA
Social aspects	8,862	NA
Other psychological sciences	2,636,390	NA
Social sciences	1,330,958	1,300,903
Anthropology	18,032	NA
Economics	59,501	NA
Political science and government	5,753	NA
Sociology, demography, and population studies	31,496	NA
Other social sciences	1,216,175	NA
Engineering	3,928,766	3,754,073
Aerospace, aeronautical, and astronautical engineering	109,543	NA
Bioengineering and biomedical engineering	64,169	NA
Chemical engineering	94,723	NA
Civil engineering	69,849	NA
Electrical, electronics, and communications engineering	228,272	NA
Industrial and manufacturing engineering	35,010	NA
Mechanical engineering	127,309	NA
Metallurgical and materials engineering	352,541	NA
Other engineering	2,847,348	NA
Other fields	4,547,461	4,628,503
Business management and business administration	46,480	NA
Communication and communications technologies	565	NA
Education research	358,474	NA
Humanities	24,507	NA
Law	5,618	NA
Social work	0	NA
Visual and performing arts	0	NA
All other fields	4,111,819	NA

NA = not available; agency did not provide data.

Note(s):

Because of rounding, detail may not add to total.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024-25.

Table 29. Federal obligations for basic research, by agency and field of R&D: FY 2024

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
All agencies	47,493,585	3,892,726	3,494,035	17,606,212	585,476	9,446,936	2,661,016	1,330,958	3,928,766	4,547,461
Departments										
Department of Agriculture	1,555,396	30,188	16,346	1,255,415	3,727	77,880	200	50,074	83,253	38,312
Agricultural Research Service	893,724	1,162	3,932	821,064	0	57,377	0	2,145	8,044	0
Animal and Plant Health Inspection Service	11,486	0	0	11,486	0	0	0	0	0	0
Forest Service	108,711	0	3,427	83,077	0	4,604	0	12,370	5,234	0
National Institute of Food and Agriculture	541,111	29,026	8,987	339,425	3,727	15,899	200	35,559	69,976	38,312
Natural Resources Conservation Service	363	0	0	363	0	0	0	0	0	0
Department of Commerce	355,423	11,042	18	22,274	3,149	228,245	0	0	90,695	0
National Institute of Standards and Technology	355,423	11,042	18	22,274	3,149	228,245	0	0	90,695	0
Department of Defense	4,692,643	2,164,016	167,053	269,125	74,078	258,687	37,218	21,315	889,231	811,920
Defense Advanced Research Projects Agency	352,404	175,131	0	65,188	12,744	34,739	5,585	0	51,942	7,075
Defense Health Agency	49,239	0	0	46,516	0	0	0	0	0	2,723
Department of the Air Force	2,715,829	1,782,749	225	1,294	785	7,742	87	593	451,394	470,960
Air Force	2,684,428	1,752,962	225	1,294	785	7,742	87	593	451,394	469,345
Space Force	31,402	29,786	0	0	0	0	0	0	0	1,615
Department of the Army	524,159	82,205	5,759	121,296	13,355	45,355	21,120	2,819	49,077	183,174
Department of the Navy	684,855	52,766	152,474	23,631	13,098	114,084	5,416	4,020	174,025	145,341
Other defense agencies	366,157	71,166	8,595	11,201	34,095	56,767	5,009	13,883	162,793	2,648
Department of Education	28,226	0	0	0	0	0	0	0	0	28,226
Department of Energy	6,681,089	937,196	292,392	602,190	65,990	4,207,486	0	0	36,252	539,582
Electricity Delivery and Energy Reliability	15,247	0	0	0	0	0	0	0	15,247	0
National Nuclear Security Administration	127,872	1,520	1,933	684	6,374	110,923	0	0	488	5,950
Office of Defense Nuclear Nonproliferation	127,872	1,520	1,933	684	6,374	110,923	0	0	488	5,950
Office of Science	6,537,971	935,676	290,460	601,506	59,616	4,096,563	0	0	20,518	533,632
Department of Health and Human Services	22,794,933	0	439,872	13,862,089	197,644	729,506	2,592,302	1,020,380	2,005,806	1,947,334
Centers for Disease Control and Prevention	84,553	0	657	72,449	0	1,152	123	0	10,172	0
Centers for Medicare and Medicaid Services	19,991	0	0	19,991	0	0	0	0	0	0

Table 29. Federal obligations for basic research, by agency and field of R&D: FY 2024

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
Health Resources and Services Administration	34,305	0	0	31,343	0	0	0	0	0	2,962
National Institutes of Health	22,656,084	0	439,214	13,738,307	197,644	728,354	2,592,179	1,020,380	1,995,634	1,944,372
Department of Homeland Security	72,292	10,998	1,093	12,286	0	9,146	0	5,233	23,839	9,697
Countering Weapons of Mass Destruction Office	12,834	2,923	0	1,787	0	8,124	0	0	0	0
Science and Technology Directorate	59,208	7,825	1,093	10,499	0	1,022	0	5,233	23,839	9,697
Secret Service	250	250	0	0	0	0	0	0	0	0
Department of the Interior	43,857	0	25,807	16,985	0	46	281	0	739	0
Bureau of Land Management	2,036	0	0	2,036	0	0	0	0	0	0
Bureau of Safety and Environmental Enforcement	1,267	0	1,221	0	0	46	0	0	0	0
Geological Survey	40,554	0	24,586	14,949	0	0	281	0	739	0
Department of Justice	14,069	0	0	969	0	0	0	13,099	0	0
Office of Justice Programs	14,069	0	0	969	0	0	0	13,099	0	0
Department of State	1,146	0	0	0	0	0	0	1,146	0	0
Department of Transportation	127,043	0	0	0	0	315	0	230	84,093	42,405
National Highway Traffic Safety Administration	44,482	0	0	0	0	0	0	0	22,017	22,464
Office of the Secretary of Transportation	75,813	0	0	0	0	0	0	0	56,980	18,833
Pipeline and Hazardous Materials Safety Administration	6,748	0	0	0	0	315	0	230	5,095	1,108
Department of Veterans Affairs	795,235	0	0	795,235	0	0	0	0	0	0
Other agencies										
Agency for International Development	2,909	0	0	0	0	0	0	0	0	2,909
National Aeronautics and Space Administration	4,356,036	0	1,551,346	32,803	0	2,689,135	0	0	41,859	40,893
National Science Foundation	5,804,939	739,285	952,751	723,903	240,887	1,213,172	31,015	174,941	667,306	1,061,678
Smithsonian Institution	168,350	0	47,357	12,935	0	33,320	0	44,539	5,694	24,504

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 30. Preliminary federal obligations for basic research, by agency and field of R&D: FY 2025

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
All agencies	45,361,068	2,179,182	3,577,094	17,348,092	605,928	9,340,099	2,627,193	1,300,903	3,754,073	4,628,503
Departments										
Department of Agriculture	1,499,495	27,792	11,374	1,222,231	3,420	76,249	184	46,068	77,031	35,147
Agricultural Research Service	895,000	1,164	0	826,175	0	57,459	0	2,148	8,055	0
Animal and Plant Health Inspection Service	8,792	0	0	8,792	0	0	0	0	0	0
Forest Service	99,289	0	3,130	75,877	0	4,205	0	11,298	4,780	0
National Institute of Food and Agriculture	496,414	26,628	8,245	311,387	3,420	14,586	184	32,622	64,196	35,147
Department of Commerce	298,057	11,788	17	21,360	3,400	220,444	0	0	41,047	0
National Institute of Standards and Technology	298,057	11,788	17	21,360	3,400	220,444	0	0	41,047	0
Department of Defense	3,013,668	472,538	175,342	281,294	97,804	285,044	40,351	13,381	833,657	814,257
Defense Advanced Research Projects Agency	398,429	198,003	0	73,701	14,409	39,276	6,315	0	58,726	7,998
Defense Health Agency	39,771	0	0	37,097	0	0	0	0	0	2,674
Department of the Air Force	995,532	43,855	234	1,345	817	8,052	91	617	452,520	488,001
Air Force	957,562	5,887	234	1,345	817	8,052	91	617	452,520	488,000
Space Force	37,970	37,968	0	0	0	0	0	0	0	2
Department of the Army	494,190	82,205	5,759	121,296	13,355	45,355	21,120	2,819	49,077	153,204
Department of the Navy	660,401	52,906	147,430	22,686	12,574	109,520	5,199	3,860	166,690	139,535
Other defense agencies	425,346	95,569	21,918	25,169	56,649	82,841	7,627	6,086	106,644	22,844
Department of Education	28,226	0	0	0	0	0	0	0	0	28,226
Department of Energy	6,814,866	948,439	260,697	591,185	73,673	4,386,399	0	0	13,163	541,311
Electricity Delivery and Energy Reliability	12,753	0	0	0	0	0	0	0	12,753	0
National Nuclear Security Administration	122,601	386	1,903	0	5,491	108,811	0	0	410	5,600
Office of Defense Nuclear Nonproliferation	122,601	386	1,903	0	5,491	108,811	0	0	410	5,600
Office of Science	6,679,513	948,053	258,794	591,185	68,182	4,277,588	0	0	0	535,711
Department of Health and Human Services	22,458,606	0	433,167	13,657,374	194,911	719,025	2,556,414	1,006,265	1,970,974	1,920,476
Centers for Disease Control and Prevention	61,529	0	28	57,716	0	747	93	0	2,946	0
Centers for Medicare and Medicaid Services	20,391	0	0	20,391	0	0	0	0	0	0
Health Resources and Services Administration	34,000	0	0	31,000	0	0	0	0	0	3,000

Table 30. Preliminary federal obligations for basic research, by agency and field of R&D: FY 2025

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
National Institutes of Health	22,342,687	0	433,139	13,548,267	194,911	718,279	2,556,322	1,006,265	1,968,029	1,917,476
Department of Homeland Security	44,580	4,400	700	8,662	0	4,318	0	5,000	14,500	7,000
Countering Weapons of Mass Destruction Office	3,680	0	0	662	0	3,018	0	0	0	0
Science and Technology Directorate	40,000	4,300	700	8,000	0	1,000	0	5,000	14,000	7,000
Secret Service	900	100	0	0	0	300	0	0	500	0
Department of the Interior	42,924	0	25,284	16,595	0	29	280	0	736	0
Bureau of Land Management	1,699	0	0	1,699	0	0	0	0	0	0
Bureau of Safety and Environmental Enforcement	817	0	787	0	0	29	0	0	0	0
Geological Survey	40,408	0	24,497	14,895	0	0	280	0	736	0
Department of Justice	14,007	0	0	979	0	0	0	13,028	0	0
Office of Justice Programs	14,007	0	0	979	0	0	0	13,028	0	0
Department of Transportation	143,162	0	0	0	0	2,952	0	0	91,818	48,391
Federal Highway Administration	793	0	0	0	0	0	0	0	793	0
National Highway Traffic Safety Administration	57,725	0	0	0	0	0	0	0	28,573	29,152
Office of the Secretary of Transportation	78,107	0	0	0	0	0	0	0	59,500	18,607
Pipeline and Hazardous Materials Safety Administration	6,537	0	0	0	0	2,952	0	0	2,952	632
Department of Veterans Affairs	800,000	0	0	800,000	0	0	0	0	0	0
Other agencies										
National Aeronautics and Space Administration	4,413,316	0	1,698,862	35,065	0	2,437,568	0	0	60,306	181,515
National Science Foundation	5,608,162	714,225	920,454	699,364	232,722	1,172,048	29,964	169,011	644,686	1,025,689
Smithsonian Institution	182,000	0	51,197	13,984	0	36,022	0	48,150	6,156	26,491

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 31. Federal obligations for applied research, by agency and performer: FY 2024

(Dollars in thousands)

Agency	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
All agencies	52,062,246	14,417,151	5,167,761	8,334,624	18,456,109	4,849,333	528,602	308,665
Departments								
Department of Agriculture	1,643,281	926,838	0	19,396	650,045	27,530	15,387	4,084
Agricultural Marketing Service	14,628	0	0	0	4,134	250	10,244	0
Agricultural Research Service	714,979	600,888	0	0	101,140	9,200	88	3,663
Animal and Plant Health Inspection Service	22,331	19,842	0	20	1,980	329	161	0
Economic Research Service	90,612	89,757	0	0	160	695	0	0
Forest Service	156,672	131,366	0	299	18,652	1,761	4,174	421
National Agricultural Statistics Service	4,584	4,288	0	0	22	273	0	0
National Institute of Food and Agriculture	548,930	4,842	0	18,975	509,472	14,922	720	0
Natural Resources Conservation Service	90,545	75,855	0	103	14,487	100	0	0
Department of Commerce	1,578,983	1,096,729	23,292	59,512	375,409	17,765	5,848	428
Census Bureau	194,832	190,730	0	0	3,746	356	0	0
National Institute of Standards and Technology	617,003	455,920	23,291	28,649	100,438	6,329	1,963	414
National Oceanic and Atmospheric Administration	763,197	450,079	1	26,912	271,225	11,080	3,885	14
National Telecommunications and Information Administration	3,952	0	0	3,952	0	0	0	0
Department of Defense	8,494,073	3,479,549	761,587	2,566,760	1,266,424	375,696	1,956	42,102
Defense Advanced Research Projects Agency	1,457,228	98,454	86,605	903,629	293,908	63,116	0	11,515
Defense Health Agency	550,510	184,662	7,359	112,174	64,516	164,827	4	16,968
Department of the Air Force	2,357,143	1,964,225	51,200	10,684	246,071	84,088	376	500
Air Force	2,357,143	1,964,225	51,200	10,684	246,071	84,088	376	500
Department of the Army	1,525,156	528,544	26,882	750,004	214,048	5,153	0	524
Department of the Navy	1,362,151	444,008	8,256	447,126	401,581	51,360	76	9,744
Other defense agencies	1,241,885	259,655	581,285	343,143	46,299	7,152	1,500	2,851
Department of Education	323,055	0	0	24,320	169,394	103,015	26,325	0
Department of Energy	7,154,199	1,306,257	3,882,660	1,071,310	652,650	151,240	88,195	1,888
Advanced Research Projects Agency—Energy	248,211	541	25,563	123,474	87,130	11,502	0	0
Electricity Delivery and Energy Reliability	67,647	399	57,215	7,659	769	1,396	210	0
Energy Efficiency and Renewable Energy	1,496,665	10,010	844,895	351,145	205,227	67,400	17,988	0
Environmental Management	10,795	16	7,673	1,914	1,191	0	0	0
Fossil Energy	1,484,208	981,219	106,259	0	274,528	51,158	69,998	1,046
National Nuclear Security Administration	2,837,070	274,871	2,245,192	307,704	9,303	0	0	0
Defense Programs	2,530,526	273,138	2,101,268	148,308	7,811	0	0	0
Naval Nuclear Propulsion Program	150,900	0	180	150,720	0	0	0	0

Table 31. Federal obligations for applied research, by agency and performer: FY 2024

(Dollars in thousands)

Agency	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
Office of Defense Nuclear Nonproliferation	155,644	1,732	143,744	8,676	1,492	0	0	0
Nuclear Energy	729,806	38,899	551,446	92,274	43,245	3,101	*	842
Office of Cybersecurity, Energy Security, and Emergency Response	104,361	76	44,417	11,929	31,256	16,682	0	0
Office of Science	175,438	227	0	175,211	0	0	0	0
Department of Health and Human Services	25,942,267	5,180,672	318,710	2,956,437	13,802,747	3,328,797	168,077	186,828
Administration for Children and Families	10,682	35	0	0	1,600	9,047	0	0
Administration for Community Living	112,987	0	0	3,785	76,469	31,734	1,000	0
Advanced Research Projects Agency for Health	1,039,001	33,957	32,661	346,694	555,339	64,100	0	6,250
Agency for Healthcare Research and Quality	337,445	46,928	0	144,403	115,908	30,111	95	0
Agency for Toxic Substances and Disease Registry	2,798	0	0	0	1,518	981	0	300
Biomedical Advanced Research and Development Authority	1,488,789	66,552	0	1,295,447	56,195	41,713	179	28,703
Centers for Disease Control and Prevention	278,964	31,893	0	10,219	143,571	26,870	52,133	14,278
Food and Drug Administration	732,711	474,672	0	9,271	90,790	81,155	71,300	5,523
Health Resources and Services Administration	51,808	2,321	0	0	42,855	4,572	2,060	0
National Institutes of Health	21,852,081	4,521,755	286,048	1,121,451	12,718,419	3,031,322	41,311	131,775
Office of the Secretary of Health and Human Services	35,000	2,559	0	25,167	82	7,192	0	0
Office of the Assistant Secretary for Planning and Evaluation	35,000	2,559	0	25,167	82	7,192	0	0
Department of Homeland Security	164,521	43,786	20,890	62,146	16,916	16,372	0	4,411
Coast Guard	7,439	2,208	0	5,160	58	0	0	13
Countering Weapons of Mass Destruction Office	24,778	6,607	985	15,609	1,577	0	0	0
Science and Technology Directorate	132,305	34,970	19,905	41,378	15,281	16,372	0	4,398
Department of the Interior	412,933	322,129	426	7,524	69,101	5,006	8,063	684
Bureau of Indian Affairs	5,000	0	0	0	0	0	5,000	0
Bureau of Land Management	14,718	7,845	0	260	4,066	2,470	77	0
Bureau of Reclamation	26,297	8,035	426	5,311	8,800	1,905	1,819	0
Bureau of Safety and Environmental Enforcement	7,449	3,017	0	1,054	2,694	0	0	684
Fish and Wildlife Service	48,000	48,000	0	0	0	0	0	0
Geological Survey	305,105	253,662	0	899	48,747	631	1,167	0
National Park Service	6,365	1,570	0	0	4,795	0	0	0
Department of Justice	109,374	5,874	0	10,091	39,181	53,303	925	0
Bureau of Prisons	1,960	1,035	0	0	0	0	925	0
Office of Justice Programs	107,414	4,839	0	10,091	39,181	53,303	0	0
Department of Labor	2,354	1,050	0	1,304	0	0	0	0

Table 31. Federal obligations for applied research, by agency and performer: FY 2024

(Dollars in thousands)

Agency	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
Employee Benefits Security Administration	2,354	1,050	0	1,304	0	0	0	0
Department of State	21,779	21,779	0	0	0	0	0	0
Department of Transportation	754,609	123,619	18,550	243,070	147,231	38,115	179,260	4,765
Federal Aviation Administration	205,194	22,134	6,357	109,407	45,519	4,878	12,133	4,765
Federal Highway Administration	394,977	67,997	2,039	76,324	73,363	24,180	151,073	0
Federal Motor Carrier Safety Administration	10,853	3,400	250	6,779	0	424	0	0
Federal Railroad Administration	28,788	7,772	0	8,787	7,305	4,925	0	0
Federal Transit Administration	37,501	9,924	0	0	10,425	1,098	16,053	0
National Highway Traffic Safety Administration	63,205	9,328	8,925	37,511	6,719	722	0	0
Pipeline and Hazardous Materials Safety Administration	14,090	3,064	978	4,263	3,899	1,887	0	0
Department of the Treasury	121	0	0	121	0	0	0	0
Mint	121	0	0	121	0	0	0	0
Department of Veterans Affairs	1,037,952	1,037,952	0	0	0	0	0	0
Other agencies								
Agency for Global Media	9,449	2,916	0	6,534	0	0	0	0
Agency for International Development	196,662	18,504	0	6,642	99,289	15,543	0	56,684
Appalachian Regional Commission	1,190	0	0	713	325	152	0	0
Consumer Product Safety Commission	47	47	0	0	0	0	0	0
Environmental Protection Agency	414,880	232,343	848	124,135	48,450	9,083	0	21
Federal Trade Commission	834	834	0	0	0	0	0	0
National Aeronautics and Space Administration	1,805,165	535,786	108,004	899,687	231,533	25,168	337	4,652
National Science Foundation	1,190,286	29,075	0	217,775	849,683	70,174	23,172	406
Nuclear Regulatory Commission	72,668	1,984	32,795	13,296	22,882	0	0	1,712
Patient-Centered Outcomes Research Trust Fund	605,450	0	0	0	0	605,450	0	0
Postal Service	4,918	0	0	4,918	0	0	0	0
RESTORE Act Centers of Excellence Research Grants Program	6,556	0	0	0	0	0	6,556	0
Social Security Administration	96,639	49,434	0	22,372	14,849	5,485	4,500	0
Tennessee Valley Authority	18,000	0	0	16,560	0	1,440	0	0

* = amount greater than \$0 but less than \$500.

FFRDC = federally funded research and development center.

^a Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, and actual federal performance.

^b Higher education includes both public and private institutions as well as University Affiliated Research Centers.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 32. Preliminary federal obligations for applied research, by agency and performer: FY 2025

(Dollars in thousands)

Agency	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
All agencies	49,879,449	13,827,470	5,199,545	7,267,189	18,063,211	4,849,983	416,080	255,972
Departments								
Department of Agriculture	1,510,094	887,345	0	18,989	566,872	22,658	11,091	3,140
Agricultural Marketing Service	9,199	0	0	0	2,623	157	6,419	0
Agricultural Research Service	716,000	630,432	0	0	75,855	6,900	66	2,747
Animal and Plant Health Inspection Service	20,453	18,000	0	1,100	1,042	271	40	0
Economic Research Service	90,612	90,012	0	100	500	0	0	0
Forest Service	142,677	119,094	0	278	17,382	1,641	3,890	392
National Agricultural Statistics Service	5,000	4,928	0	0	72	0	0	0
National Institute of Food and Agriculture	503,586	4,442	0	17,407	467,387	13,689	661	0
Natural Resources Conservation Service	22,566	20,437	0	103	2,011	0	15	0
Department of Commerce	1,591,253	1,164,488	21,841	50,489	333,495	16,012	4,528	401
Census Bureau	194,832	190,730	0	0	3,746	356	0	0
National Institute of Standards and Technology	518,721	440,773	21,840	24,554	27,158	4,008	0	388
National Oceanic and Atmospheric Administration	872,879	532,985	1	21,115	302,590	11,648	4,528	13
National Telecommunications and Information Administration	4,820	0	0	4,820	0	0	0	0
Department of Defense	8,225,769	3,278,978	781,610	2,342,599	1,367,785	415,904	467	38,425
Defense Advanced Research Projects Agency	1,702,867	115,050	101,204	1,055,951	343,451	73,755	0	13,456
Defense Health Agency	470,533	184,127	8,851	97,496	45,918	123,455	3	10,683
Department of the Air Force	2,443,731	2,042,794	57,756	11,111	244,070	87,089	391	520
Air Force	2,443,731	2,042,794	57,756	11,111	244,070	87,089	391	520
Department of the Army	1,109,495	256,232	20,476	448,166	307,852	75,397	0	1,372
Department of the Navy	1,307,665	426,248	7,925	429,241	385,518	49,306	73	9,354
Other defense agencies	1,191,478	254,527	585,398	300,634	40,976	6,903	0	3,040
Department of Education	323,055	0	0	24,320	169,394	103,015	26,325	0
Department of Energy	6,548,697	1,054,163	3,935,770	936,251	463,159	133,989	23,942	1,421
Advanced Research Projects Agency—Energy	345,000	752	35,531	171,623	121,107	15,988	0	0
Electricity Delivery and Energy Reliability	72,746	429	61,528	8,236	826	1,501	226	0
Energy Efficiency and Renewable Energy	1,496,665	10,010	844,895	351,145	205,227	67,400	17,988	0
Environmental Management	12,728	0	9,037	3,691	0	0	0	0
Fossil Energy	1,159,690	769,351	353,536	0	6,920	23,107	5,729	1,046
National Nuclear Security Administration	2,818,840	235,954	2,135,386	357,417	87,737	2,345	0	0
Defense Programs	2,535,483	234,511	1,988,501	223,586	86,541	2,345	0	0
Naval Nuclear Propulsion Program	125,414	0	180	125,234	0	0	0	0

Table 32. Preliminary federal obligations for applied research, by agency and performer: FY 2025

(Dollars in thousands)

Agency	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
Office of Defense Nuclear Nonproliferation	157,943	1,444	146,705	8,598	1,197	0	0	0
Nuclear Energy	504,992	37,566	437,108	28,360	0	1,583	0	375
Office of Cybersecurity, Energy Security, and Emergency Response	138,036	101	58,750	15,779	41,342	22,065	0	0
Department of Health and Human Services	25,208,015	5,143,128	305,289	2,261,239	13,767,536	3,371,157	162,729	196,936
Administration for Children and Families	10,733	35	0	0	1,700	8,998	0	0
Administration for Community Living	112,185	0	0	3,400	76,479	31,307	1,000	0
Advanced Research Projects Agency for Health	1,097,000	37,677	20,096	353,607	569,517	116,102	0	0
Agency for Healthcare Research and Quality	337,445	46,928	0	144,403	115,908	30,111	95	0
Agency for Toxic Substances and Disease Registry	2,798	0	0	0	1,518	981	0	300
Biomedical Advanced Research and Development Authority	819,408	73,096	0	613,276	42,581	43,326	0	47,129
Centers for Disease Control and Prevention	291,451	22,227	0	11,926	160,149	30,587	53,464	13,098
Food and Drug Administration	667,181	432,220	0	8,442	82,670	73,897	64,923	5,029
Health Resources and Services Administration	45,889	2,721	0	0	36,650	4,458	2,060	0
National Institutes of Health	21,786,695	4,508,224	285,192	1,118,095	12,680,363	3,022,251	41,187	131,381
Office of the Secretary of Health and Human Services	37,229	20,000	0	8,089	0	9,140	0	0
Office of the Assistant Secretary for Planning and Evaluation	37,229	20,000	0	8,089	0	9,140	0	0
Department of Homeland Security	180,988	47,561	25,424	63,041	19,058	20,418	0	5,485
Coast Guard	9,196	2,756	0	6,440	0	0	0	0
Countering Weapons of Mass Destruction Office	4,598	0	0	4,598	0	0	0	0
Cybersecurity and Infrastructure Security Agency	793	793	0	0	0	0	0	0
Science and Technology Directorate	165,000	43,612	24,824	51,603	19,058	20,418	0	5,485
Secret Service	1,400	400	600	400	0	0	0	0
Department of the Interior	361,284	278,914	458	4,803	63,941	4,508	8,311	349
Bureau of Indian Affairs	5,000	0	0	0	0	0	5,000	0
Bureau of Land Management	10,800	4,356	8	131	4,706	1,379	220	0
Bureau of Reclamation	26,547	11,461	450	3,462	6,746	2,500	1,928	0
Bureau of Safety and Environmental Enforcement	2,565	1,468	0	315	434	0	0	349
Fish and Wildlife Service	6,000	6,000	0	0	0	0	0	0
Geological Survey	304,007	252,748	0	895	48,571	629	1,163	0
National Park Service	6,365	2,880	0	0	3,484	0	0	0
Department of Justice	106,667	4,180	0	6,600	41,301	53,836	750	0
Bureau of Prisons	1,805	1,055	0	0	0	0	750	0
Office of Justice Programs	104,862	3,125	0	6,600	41,301	53,836	0	0

Table 32. Preliminary federal obligations for applied research, by agency and performer: FY 2025

(Dollars in thousands)

Agency	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
Department of Labor	1,857	1,113	0	744	0	0	0	0
Employee Benefits Security Administration	1,857	1,113	0	744	0	0	0	0
Department of Transportation	710,643	95,447	7,184	317,839	118,956	12,605	153,704	4,908
Federal Aviation Administration	211,350	22,798	6,547	112,689	46,885	5,024	12,497	4,908
Federal Highway Administration	390,424	46,019	636	145,208	56,488	1,272	140,802	0
Federal Motor Carrier Safety Administration	7,553	2,230	0	5,232	10	81	0	0
Federal Railroad Administration	15,400	2,000	0	8,000	3,000	2,000	400	0
Federal Transit Administration	5,254	0	0	0	3,769	1,480	5	0
National Highway Traffic Safety Administration	65,282	18,853	0	40,878	4,804	747	0	0
Pipeline and Hazardous Materials Safety Administration	15,379	3,547	0	5,833	4,000	2,000	0	0
Department of the Treasury	83	0	0	36	0	0	0	47
Mint	83	0	0	36	0	0	0	47
Department of Veterans Affairs	1,044,000	1,044,000	0	0	0	0	0	0
Other agencies								
Appalachian Regional Commission	237	0	0	13	0	224	0	0
Consumer Product Safety Commission	1	1	0	0	0	0	0	0
Environmental Protection Agency	415,027	239,166	0	120,561	43,927	11,374	0	0
Federal Trade Commission	347	347	0	0	0	0	0	0
National Aeronautics and Space Administration	1,724,663	511,892	103,187	859,564	221,207	24,045	322	4,444
National Science Foundation	1,216,979	29,727	0	222,659	868,738	71,748	23,692	415
Nuclear Regulatory Commission	40,667	1,275	18,782	7,334	13,276	0	0	0
Patient-Centered Outcomes Research Trust Fund	582,864	0	0	0	0	582,864	0	0
Postal Service	2,837	0	0	2,837	0	0	0	0
RESTORE Act Centers of Excellence Research Grants Program	4,783	0	0	0	4,565	0	218	0
Social Security Administration	57,641	45,746	0	7,950	0	3,945	0	0
Tennessee Valley Authority	21,000	0	0	19,320	0	1,680	0	0

FFRDC = federally funded research and development center.

^a Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, and actual federal performance.

^b Higher education includes both public and private institutions as well as University Affiliated Research Centers.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 33. Federal obligations for applied research, by detailed field of R&D: FYs 2024–25

(Dollars in thousands)

Field	2024	2025 (preliminary)
All fields	52,062,246	49,879,449
Computer and information sciences	2,771,181	2,909,228
Geosciences, atmospheric sciences, and ocean sciences	2,198,576	2,277,088
Atmospheric science and meteorology	472,705	NA
Geological and earth sciences	76,598	NA
Ocean sciences and marine sciences	495,241	NA
Other geosciences, atmospheric sciences, and ocean sciences	1,154,032	NA
Life sciences	21,015,375	20,025,946
Agricultural sciences	578,927	NA
Biological and biomedical sciences	10,162,832	NA
Health sciences	7,855,570	NA
Natural resources and conservation	390,603	NA
Other life sciences	2,027,444	NA
Mathematics and statistics	279,898	285,553
Physical sciences	3,312,084	3,162,708
Astronomy and astrophysics	6,840	NA
Chemistry	1,145,798	NA
Materials science	240,938	NA
Physics	1,144,874	NA
Other physical sciences	773,633	NA
Psychology	2,625,250	2,609,317
Biological aspects	5,165	NA
Social aspects	24,336	NA
Other psychological sciences	2,595,748	NA
Social sciences	1,806,558	1,752,181
Anthropology	2,196	NA
Economics	238,013	NA
Political science and government	2,781	NA
Sociology, demography, and population studies	107,148	NA
Other social sciences	1,456,421	NA
Engineering	13,622,322	12,591,261
Aerospace, aeronautical, and astronautical engineering	1,248,476	NA
Bioengineering and biomedical engineering	243,414	NA
Chemical engineering	1,292,869	NA
Civil engineering	551,952	NA
Electrical, electronics, and communications engineering	715,828	NA
Industrial and manufacturing engineering	1,977,828	NA
Mechanical engineering	379,895	NA
Metallurgical and materials engineering	475,395	NA
Other engineering	6,736,664	NA
Other fields	4,431,002	4,266,166
Business management and business administration	94,027	NA
Communication and communications technologies	57,925	NA
Education research	736,293	NA
Humanities	*	NA
Law	3,493	NA
Social work	2,007	NA
Visual and performing arts	0	NA
All other fields	3,537,257	NA

* = amount greater than \$0 but less than \$500. NA = not available; agency did not provide data.

Note(s):

Because of rounding, detail may not add to total.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024-25.

Table 34. Federal obligations for applied research, by agency and field of R&D: FY 2024

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
All agencies	52,062,246	2,771,181	2,198,576	21,015,375	279,898	3,312,084	2,625,250	1,806,558	13,622,322	4,431,002
Departments										
Department of Agriculture	1,643,281	15,805	15,104	1,230,116	8,043	63,307	5,353	166,221	59,190	80,143
Agricultural Marketing Service	14,628	0	0	14,628	0	0	0	0	0	0
Agricultural Research Service	714,979	929	3,146	656,851	0	45,902	0	1,716	6,435	0
Animal and Plant Health Inspection Service	22,331	0	0	22,331	0	0	0	0	0	0
Economic Research Service	90,612	0	0	0	0	0	0	90,612	0	0
Forest Service	156,672	0	2,236	121,367	0	2,787	0	25,354	4,927	0
National Agricultural Statistics Service	4,584	0	0	0	4,584	0	0	0	0	0
National Institute of Food and Agriculture	548,930	14,875	9,721	324,393	3,459	14,618	5,353	48,540	47,828	80,143
Natural Resources Conservation Service	90,545	0	0	90,545	0	0	0	0	0	0
Department of Commerce	1,578,983	222,205	651,157	80,255	16,616	94,483	15	186,774	312,690	14,789
Census Bureau	194,832	10,675	0	0	15,256	0	15	168,821	0	65
National Institute of Standards and Technology	617,003	207,335	12,006	32,556	1,151	65,330	0	374	298,251	0
National Oceanic and Atmospheric Administration	763,197	4,195	639,151	47,699	210	29,153	0	17,579	10,487	14,724
National Telecommunications and Information Administration	3,952	0	0	0	0	0	0	0	3,952	0
Department of Defense	8,494,073	1,255,515	405,520	1,103,774	47,076	364,192	68,036	31,095	4,223,643	995,222
Defense Advanced Research Projects Agency	1,457,228	761,219	20,896	147,496	0	98,270	5,206	27,180	312,260	84,701
Defense Health Agency	550,510	0	0	548,704	0	0	1,435	0	0	371
Department of the Air Force	2,357,143	1,710	0	22	30	1,127	*	*	1,887,114	467,141
Air Force	2,357,143	1,710	0	22	30	1,127	*	*	1,887,114	467,141
Department of the Army	1,525,156	146,091	9,231	231,546	37,685	4,934	55,667	0	700,012	339,989
Department of the Navy	1,362,151	129,143	375,170	30,307	650	92,405	5,487	770	682,985	45,234
Other defense agencies	1,241,885	217,352	224	145,698	8,711	167,456	240	3,146	641,272	57,786
Department of Education	323,055	0	0	0	0	0	0	0	0	323,055
Department of Energy	7,154,199	768,892	158,844	7,069	8,134	1,710,905	0	0	4,496,648	3,707
Advanced Research Projects Agency –Energy	248,211	11,778	284	7,023	0	27,032	0	0	202,094	0
Electricity Delivery and Energy Reliability	67,647	0	0	0	0	0	0	0	67,647	0

Table 34. Federal obligations for applied research, by agency and field of R&D: FY 2024

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
Energy Efficiency and Renewable Energy	1,496,665	0	0	0	0	0	0	0	1,496,665	0
Environmental Management	10,795	0	10,795	0	0	0	0	0	0	0
Fossil Energy	1,484,208	0	141,000	0	0	235,989	0	0	1,107,219	0
National Nuclear Security Administration	2,837,070	652,753	4,590	46	8,134	1,435,528	0	0	736,018	0
Defense Programs	2,530,526	638,310	0	0	0	1,315,758	0	0	576,458	0
Naval Nuclear Propulsion Program	150,900	0	0	0	0	0	0	0	150,900	0
Office of Defense Nuclear Nonproliferation	155,644	14,444	4,590	46	8,134	119,771	0	0	8,659	0
Nuclear Energy	729,806	0	0	0	0	0	0	0	729,806	0
Office of Cybersecurity, Energy Security, and Emergency Response	104,361	104,361	0	0	0	0	0	0	0	0
Office of Science	175,438	0	2,175	0	0	12,355	0	0	157,200	3,707
Department of Health and Human Services	25,942,267	295,406	426,426	16,448,505	190,631	730,302	2,508,518	1,212,345	2,104,166	2,025,969
Administration for Children and Families	10,682	0	0	0	0	0	0	10,682	0	0
Administration for Community Living	112,987	0	0	0	0	0	0	112,987	0	0
Advanced Research Projects Agency for Health	1,039,001	246,031	0	553,346	0	27,232	0	0	164,521	47,871
Agency for Healthcare Research and Quality	337,445	49,189	0	192,974	0	0	7,799	20,813	803	65,867
Agency for Toxic Substances and Disease Registry	2,798	0	2,798	0	0	0	0	0	0	0
Biomedical Advanced Research and Development Authority	1,488,789	0	0	1,488,789	0	0	0	0	0	0
Centers for Disease Control and Prevention	278,964	186	0	180,315	0	564	529	48,693	14,028	34,651
Food and Drug Administration	732,711	0	0	732,711	0	0	0	0	0	0
Health Resources and Services Administration	51,808	0	0	49,599	0	0	0	0	0	2,209
National Institutes of Health	21,852,081	0	423,628	13,250,772	190,631	702,507	2,500,190	984,169	1,924,814	1,875,372
Office of the Secretary of Health and Human Services	35,000	0	0	0	0	0	0	35,000	0	0
Office of the Assistant Secretary for Planning and Evaluation	35,000	0	0	0	0	0	0	35,000	0	0
Department of Homeland Security	164,521	19,098	14,128	33,927	0	22,771	0	160	70,273	4,165
Coast Guard	7,439	256	0	220	0	2	0	0	6,757	203

Table 34. Federal obligations for applied research, by agency and field of R&D: FY 2024

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
Countering Weapons of Mass Destruction Office	24,778	4,124	0	10,984	0	9,669	0	0	0	0
Science and Technology Directorate	132,305	14,717	14,128	22,723	0	13,099	0	160	63,516	3,962
Department of the Interior	412,933	0	116,866	249,394	0	5,667	0	10,683	30,073	250
Bureau of Indian Affairs	5,000	0	0	5,000	0	0	0	0	0	0
Bureau of Land Management	14,718	0	0	14,718	0	0	0	0	0	0
Bureau of Reclamation	26,297	0	0	3,084	0	0	0	0	23,213	0
Bureau of Safety and Environmental Enforcement	7,449	0	0	0	0	588	0	0	6,860	0
Fish and Wildlife Service	48,000	0	0	48,000	0	0	0	0	0	0
Geological Survey	305,105	0	116,866	172,477	0	5,078	0	10,683	0	0
National Park Service	6,365	0	0	6,115	0	0	0	0	0	250
Department of Justice	109,374	940	0	5,343	304	14,749	412	84,920	520	2,187
Bureau of Prisons	1,960	0	0	0	0	0	0	0	0	1,960
Office of Justice Programs	107,414	940	0	5,343	304	14,749	412	84,920	520	227
Department of Labor	2,354	0	0	0	0	0	0	2,354	0	0
Employee Benefits Security Administration	2,354	0	0	0	0	0	0	2,354	0	0
Department of State	21,779	0	0	21,779	0	0	0	0	0	0
Department of Transportation	754,609	11,235	16,262	5,879	5,402	11,832	42,917	0	628,717	32,366
Federal Aviation Administration	205,194	8,943	16,262	5,879	4,902	0	15,222	0	132,973	21,014
Federal Highway Administration	394,977	0	0	0	0	0	0	0	394,977	0
Federal Motor Carrier Safety Administration	10,853	0	0	0	0	10,853	0	0	0	0
Federal Railroad Administration	28,788	2,292	0	0	0	0	0	0	23,766	2,731
Federal Transit Administration	37,501	0	0	0	0	0	0	0	32,383	5,118
National Highway Traffic Safety Administration	63,205	0	0	0	0	0	27,696	0	33,220	2,290
Pipeline and Hazardous Materials Safety Administration	14,090	0	0	0	500	978	0	0	11,398	1,214
Department of the Treasury	121	0	0	0	0	0	0	0	121	0
Mint	121	0	0	0	0	0	0	0	121	0
Department of Veterans Affairs	1,037,952	0	0	1,037,952	0	0	0	0	0	0
Other agencies										
Agency for Global Media	9,449	0	0	0	0	0	0	9,449	0	0
Agency for International Development	196,662	0	0	0	0	0	0	0	0	196,662
Appalachian Regional Commission	1,190	0	0	0	0	0	0	1,190	0	0
Consumer Product Safety Commission	47	0	0	0	0	0	0	0	47	0
Environmental Protection Agency	414,880	5,683	170,997	163,904	3,155	9,906	0	2,397	58,839	0

Table 34. Federal obligations for applied research, by agency and field of R&D: FY 2024

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
Federal Trade Commission	834	50	0	14	0	0	0	755	0	15
National Aeronautics and Space Administration	1,805,165	0	211,217	104	0	263,354	0	0	1,194,117	136,373
National Science Foundation	1,190,286	175,832	12,054	15,357	538	20,616	0	1,576	348,214	616,098
Nuclear Regulatory Commission	72,668	521	0	0	0	0	0	0	72,147	0
Patient-Centered Outcomes Research Trust Fund	605,450	0	0	605,450	0	0	0	0	0	0
Postal Service	4,918	0	0	0	0	0	0	0	4,918	0
RESTORE Act Centers of Excellence Research Grants Program	6,556	0	0	6,556	0	0	0	0	0	0
Social Security Administration	96,639	0	0	0	0	0	0	96,639	0	0
Tennessee Valley Authority	18,000	0	0	0	0	0	0	0	18,000	0

* = amount greater than \$0 but less than \$500.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 35. Preliminary federal obligations for applied research, by agency and field of R&D: FY 2025

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
All agencies	49,879,449	2,909,228	2,277,088	20,025,946	285,553	3,162,708	2,609,317	1,752,181	12,591,261	4,266,166
Departments										
Department of Agriculture	1,510,094	14,577	10,955	1,121,281	8,173	61,916	4,910	159,950	54,809	73,523
Agricultural Marketing Service	9,199	0	0	9,199	0	0	0	0	0	0
Agricultural Research Service	716,000	931	0	660,940	0	45,967	0	1,718	6,444	0
Animal and Plant Health Inspection Service	20,453	0	0	20,453	0	0	0	0	0	0
Economic Research Service	90,612	0	0	0	0	0	0	90,612	0	0
Forest Service	142,677	0	2,037	110,526	0	2,538	0	23,089	4,487	0
National Agricultural Statistics Service	5,000	0	0	0	5,000	0	0	0	0	0
National Institute of Food and Agriculture	503,586	13,647	8,918	297,597	3,173	13,410	4,910	44,530	43,877	73,523
Natural Resources Conservation Service	22,566	0	0	22,566	0	0	0	0	0	0
Department of Commerce	1,591,253	193,784	755,527	76,173	18,471	45,336	15	182,146	301,458	18,344
Census Bureau	194,832	10,675	0	0	15,256	0	15	168,821	0	65
National Institute of Standards and Technology	518,721	178,785	4,558	30,527	1,079	17,363	0	351	286,058	0
National Oceanic and Atmospheric Administration	872,879	4,323	750,969	45,646	2,136	27,974	0	12,973	10,579	18,279
National Telecommunications and Information Administration	4,820	0	0	0	0	0	0	0	4,820	0
Department of Defense	8,225,769	1,387,608	394,098	1,038,970	47,800	361,962	68,428	32,503	3,873,741	1,020,657
Defense Advanced Research Projects Agency	1,702,867	889,534	24,418	172,359	0	114,835	6,084	31,761	364,897	98,979
Defense Health Agency	470,533	0	0	468,012	0	0	1,148	0	0	1,373
Department of the Air Force	2,443,731	6,434	0	23	31	1,172	*	*	1,957,140	478,931
Air Force	2,443,731	6,434	0	23	31	1,172	*	*	1,957,140	478,931
Department of the Army	1,109,495	146,091	9,231	231,546	37,685	4,934	55,667	0	284,351	339,989
Department of the Navy	1,307,665	123,977	360,163	29,095	624	88,708	5,268	739	655,666	43,425
Other defense agencies	1,191,478	221,572	286	137,934	9,461	152,312	262	2	611,687	57,961
Department of Education	323,055	0	0	0	0	0	0	0	0	323,055
Department of Energy	6,548,697	776,934	128,291	9,761	8,709	1,656,912	0	0	3,968,090	0
Advanced Research Projects Agency –Energy	345,000	16,371	394	9,761	0	37,573	0	0	280,900	0
Electricity Delivery and Energy Reliability	72,746	0	0	0	0	0	0	0	72,746	0

Table 35. Preliminary federal obligations for applied research, by agency and field of R&D: FY 2025

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
Energy Efficiency and Renewable Energy	1,496,665	0	0	0	0	0	0	0	1,496,665	0
Environmental Management	12,728	0	12,728	0	0	0	0	0	0	0
Fossil Energy	1,159,690	0	110,171	0	0	184,391	0	0	865,129	0
National Nuclear Security Administration	2,818,840	622,527	4,999	0	8,709	1,434,948	0	0	747,658	0
Defense Programs	2,535,483	603,910	0	0	0	1,317,776	0	0	613,798	0
Naval Nuclear Propulsion Program	125,414	0	0	0	0	0	0	0	125,414	0
Office of Defense Nuclear Nonproliferation	157,943	18,617	4,999	0	8,709	117,172	0	0	8,446	0
Nuclear Energy	504,992	0	0	0	0	0	0	0	504,992	0
Office of Cybersecurity, Energy Security, and Emergency Response	138,036	138,036	0	0	0	0	0	0	0	0
Department of Health and Human Services	25,208,015	309,119	425,176	15,716,589	192,338	729,533	2,500,669	1,210,719	2,100,691	2,023,181
Administration for Children and Families	10,733	0	0	0	0	0	0	10,733	0	0
Administration for Community Living	112,185	0	0	0	0	0	0	112,185	0	0
Advanced Research Projects Agency for Health	1,097,000	259,765	0	584,235	0	28,752	0	0	173,705	50,543
Agency for Healthcare Research and Quality	337,445	49,189	0	192,974	0	0	7,799	20,813	803	65,867
Agency for Toxic Substances and Disease Registry	2,798	0	2,798	0	0	0	0	0	0	0
Biomedical Advanced Research and Development Authority	819,408	0	0	819,408	0	0	0	0	0	0
Centers for Disease Control and Prevention	291,451	164	17	198,380	2,278	377	162	48,535	7,128	34,411
Food and Drug Administration	667,181	0	0	667,181	0	0	0	0	0	0
Health Resources and Services Administration	45,889	0	0	43,289	0	0	0	0	0	2,600
National Institutes of Health	21,786,695	0	422,360	13,211,122	190,060	700,404	2,492,708	981,224	1,919,055	1,869,760
Office of the Secretary of Health and Human Services	37,229	0	0	0	0	0	0	37,229	0	0
Office of the Assistant Secretary for Planning and Evaluation	37,229	0	0	0	0	0	0	37,229	0	0
Department of Homeland Security	180,988	31,105	30,000	38,597	0	32,988	0	11,000	21,046	16,251
Coast Guard	9,196	317	0	272	0	3	0	0	8,353	251
Countering Weapons of Mass Destruction Office	4,598	788	0	325	0	3,485	0	0	0	0

Table 35. Preliminary federal obligations for applied research, by agency and field of R&D: FY 2025

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
Cybersecurity and Infrastructure Security Agency	793	0	0	0	0	0	0	0	793	0
Science and Technology Directorate	165,000	30,000	30,000	38,000	0	29,000	0	11,000	11,000	16,000
Secret Service	1,400	0	0	0	0	500	0	0	900	0
Department of the Interior	361,284	0	116,446	201,797	0	5,350	0	10,645	26,797	250
Bureau of Indian Affairs	5,000	0	0	5,000	0	0	0	0	0	0
Bureau of Land Management	10,800	0	0	10,800	0	0	0	0	0	0
Bureau of Reclamation	26,547	0	0	2,026	0	0	0	0	24,521	0
Bureau of Safety and Environmental Enforcement	2,565	0	0	0	0	290	0	0	2,276	0
Fish and Wildlife Service	6,000	0	0	6,000	0	0	0	0	0	0
Geological Survey	304,007	0	116,446	171,856	0	5,060	0	10,645	0	0
National Park Service	6,365	0	0	6,115	0	0	0	0	0	250
Department of Justice	106,667	950	0	5,396	1,307	14,896	416	81,143	525	2,034
Bureau of Prisons	1,805	0	0	0	0	0	0	0	0	1,805
Office of Justice Programs	104,862	950	0	5,396	1,307	14,896	416	81,143	525	229
Department of Labor	1,857	0	0	0	0	0	0	1,857	0	0
Employee Benefits Security Administration	1,857	0	0	0	0	0	0	1,857	0	0
Department of Transportation	710,643	9,212	16,750	6,055	5,049	8,386	34,878	0	604,483	25,829
Federal Aviation Administration	211,350	9,212	16,750	6,055	5,049	0	15,678	0	136,962	21,644
Federal Highway Administration	390,424	0	0	0	0	0	0	0	390,424	0
Federal Motor Carrier Safety Administration	7,553	0	0	0	0	7,553	0	0	0	0
Federal Railroad Administration	15,400	0	0	0	0	0	0	0	15,400	0
Federal Transit Administration	5,254	0	0	0	0	0	0	0	5,254	0
National Highway Traffic Safety Administration	65,282	0	0	0	0	0	19,200	0	43,111	2,971
Pipeline and Hazardous Materials Safety Administration	15,379	0	0	0	0	833	0	0	13,333	1,214
Department of the Treasury	83	0	0	0	0	0	0	0	83	0
Mint	83	0	0	0	0	0	0	0	83	0
Department of Veterans Affairs	1,044,000	0	0	1,044,000	0	0	0	0	0	0
Other agencies										
Appalachian Regional Commission	237	0	0	0	0	0	0	237	0	0
Consumer Product Safety Commission	1	0	0	0	0	0	0	0	1	0
Environmental Protection Agency	415,027	5,685	171,058	163,962	3,156	9,910	0	2,398	58,860	0
Federal Trade Commission	347	0	0	15	0	0	0	332	0	0

Table 35. Preliminary federal obligations for applied research, by agency and field of R&D: FY 2025

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
National Aeronautics and Space Administration	1,724,663	0	216,463	0	0	214,441	0	0	1,160,633	133,126
National Science Foundation	1,216,979	179,775	12,325	15,701	550	21,078	0	1,611	356,023	629,915
Nuclear Regulatory Commission	40,667	481	0	0	0	0	0	0	40,186	0
Patient-Centered Outcomes Research Trust Fund	582,864	0	0	582,864	0	0	0	0	0	0
Postal Service	2,837	0	0	0	0	0	0	0	2,837	0
RESTORE Act Centers of Excellence Research Grants Program	4,783	0	0	4,783	0	0	0	0	0	0
Social Security Administration	57,641	0	0	0	0	0	0	57,641	0	0
Tennessee Valley Authority	21,000	0	0	0	0	0	0	0	21,000	0

* = amount greater than \$0 but less than \$500.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 36. Federal obligations for experimental development, by agency and performer: FY 2024

(Dollars in thousands)

Agency	Total	Intramural		Extramural				Non-U.S. performers
		Federal agencies ^a	FFRDCs	United States and U.S. territories				
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
All agencies	94,686,812	26,585,470	4,560,815	56,913,638	3,903,460	1,963,120	155,840	604,468
Departments								
Department of Agriculture	294,633	227,964	0	1,776	47,650	3,777	12,550	916
Agricultural Marketing Service	14,628	0	0	0	4,134	250	10,244	0
Agricultural Research Service	178,745	150,222	0	0	25,285	2,300	22	916
Animal and Plant Health Inspection Service	42,849	19,878	0	1,776	18,112	898	2,185	0
Forest Service	54,356	54,356	0	0	0	0	0	0
National Agricultural Statistics Service	3,750	3,509	0	0	18	224	0	0
Natural Resources Conservation Service	305	0	0	0	100	105	100	0
Department of Commerce	730,562	577,558	1	27,666	123,123	2,050	156	7
Census Bureau	165,119	164,812	0	0	0	307	0	0
National Institute of Standards and Technology	341,127	307,121	0	18,822	14,765	419	0	0
National Oceanic and Atmospheric Administration	202,586	105,625	1	107	95,366	1,324	156	7
National Telecommunications and Information Administration	21,729	0	0	8,737	12,992	0	0	0
Department of Defense, total experimental development	84,669,431	24,738,757	2,320,553	52,427,302	2,765,709	1,831,629	12,608	572,873
Defense Advanced Research Projects Agency	2,367,121	186,231	42,425	1,853,400	233,945	42,902	0	8,218
Defense Health Agency	2,614,986	278,686	9,703	584,178	845,516	813,845	0	83,058
Department of the Air Force	25,179,189	5,342,230	655,515	18,468,111	423,636	211,890	7,102	70,706
Air Force	15,752,281	4,673,158	248,031	10,320,454	342,085	168,053	501	0
Space Force	9,426,908	669,072	407,484	8,147,657	81,552	43,836	6,601	70,706
Department of the Army	13,457,852	2,128,284	34,152	11,061,499	148,634	84,758	0	524
Department of the Navy	21,942,693	9,587,164	342,946	11,362,949	530,547	91,084	53	27,949
Other defense agencies	19,107,590	7,216,161	1,235,812	9,097,165	583,430	587,151	5,453	382,418
Department of Defense, advanced technology	13,657,764	2,677,302	273,504	7,443,526	1,733,546	1,374,610	2,453	152,824
Defense Advanced Research Projects Agency	2,116,120	90,664	42,425	1,698,212	233,931	42,671	0	8,218
Defense Health Agency	2,194,973	153,584	5,038	353,521	832,084	780,147	0	70,599
Department of the Air Force	1,703,564	441,054	17,974	1,012,770	160,220	71,039	501	6
Air Force	1,281,507	417,672	0	649,535	151,901	61,897	501	0
Space Force	422,057	23,382	17,974	363,235	8,319	9,142	0	6
Department of the Army	2,217,611	159,205	6,613	1,948,785	100,456	2,027	0	524
Department of the Navy	1,329,137	394,337	37,776	698,812	149,633	48,248	1	331
Other defense agencies	4,096,359	1,438,458	163,679	1,731,425	257,222	430,478	1,951	73,146
Department of Defense, major systems	71,011,667	22,061,454	2,047,049	44,983,776	1,032,163	457,019	10,155	420,050
Defense Advanced Research Projects Agency	251,001	95,567	0	155,188	15	231	0	1

Table 36. Federal obligations for experimental development, by agency and performer: FY 2024

(Dollars in thousands)

Agency	Total	Intramural		Extramural				Non-U.S. performers
		Federal agencies ^a	FFRDCs	United States and U.S. territories				
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
Defense Health Agency	420,013	125,102	4,665	230,657	13,432	33,698	0	12,459
Department of the Air Force	23,475,625	4,901,176	637,541	17,455,341	263,416	140,851	6,601	70,700
Air Force	14,470,774	4,255,486	248,031	9,670,918	190,183	106,156	0	0
Space Force	9,004,851	645,690	389,510	7,784,422	73,233	34,695	6,601	70,700
Department of the Army	11,240,241	1,969,079	27,539	9,112,714	48,178	82,731	0	0
Department of the Navy	20,613,555	9,192,827	305,171	10,664,137	380,915	42,836	52	27,618
Other defense agencies	15,011,231	5,777,703	1,072,133	7,365,740	326,208	156,673	3,502	309,272
Department of Education	105,265	0	0	8,451	53,447	28,714	14,654	0
Department of Energy	3,058,144	188,794	1,201,514	1,359,376	282,577	13,291	11,997	594
Advanced Research Projects Agency—Energy	248,211	541	25,563	123,474	87,130	11,502	0	0
Electricity Delivery and Energy Reliability	81,080	478	68,577	9,180	921	1,673	251	0
Energy Efficiency and Renewable Energy	977,335	6,536	551,724	229,301	178,028	0	11,746	0
Environmental Management	21,917	33	15,579	3,886	2,419	0	0	0
National Nuclear Security Administration	1,518,334	167,421	427,037	923,452	423	0	0	0
Defense Programs	597,035	104,978	323,488	168,569	0	0	0	0
Naval Nuclear Propulsion Program	807,370	61,540	0	745,830	0	0	0	0
Office of Defense Nuclear Nonproliferation	113,928	903	103,549	9,053	423	0	0	0
Nuclear Energy	211,268	13,784	113,035	70,083	13,656	116	*	594
Department of Health and Human Services	56,287	41,450	0	2,187	11,513	575	0	562
Agency for Healthcare Research and Quality	36,055	36,055	0	0	0	0	0	0
Centers for Disease Control and Prevention	20,232	5,395	0	2,187	11,513	575	0	562
Department of Homeland Security	299,118	89,500	42,317	80,179	39,434	45,342	0	2,347
Coast Guard	443	423	0	14	0	0	0	6
Countering Weapons of Mass Destruction Office	14,517	361	1,375	8,792	1,837	0	0	2,153
Science and Technology Directorate	267,179	88,716	39,629	55,922	37,597	45,128	0	187
Secret Service	3,560	0	80	3,480	0	0	0	0
Transportation Security Administration	13,419	0	1,234	11,971	0	214	0	0
Department of the Interior	37,302	29,636	2	1,660	5,455	156	393	0
Bureau of Land Management	327	106	2	0	82	124	13	0
Bureau of Reclamation	4,068	555	0	1,100	2,096	0	317	0
Bureau of Safety and Environmental Enforcement	442	63	0	379	0	0	0	0
Geological Survey	32,466	28,912	0	182	3,277	32	63	0
Department of Justice	28,772	2,002	0	15,350	1,471	4,586	5,362	0
Bureau of Prisons	6,914	1,552	0	0	0	0	5,362	0
Federal Bureau of Investigation	16,475	0	0	15,350	1,124	0	0	0

Table 36. Federal obligations for experimental development, by agency and performer: FY 2024

(Dollars in thousands)

Agency	Total	Intramural		Extramural				Non-U.S. performers
		Federal agencies ^a	FFRDCs	United States and U.S. territories				
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
Office of Justice Programs	5,383	450	0	0	347	4,586	0	0
Department of State	11,463	11,463	0	0	0	0	0	0
Department of Transportation	310,142	33,478	65,107	90,006	24,282	765	95,910	593
Federal Aviation Administration	191,007	22,834	63,707	86,838	17,477	150	0	0
Federal Highway Administration	42,148	4,694	0	0	0	0	37,454	0
Federal Motor Carrier Safety Administration	4,775	2,461	1,400	914	0	0	0	0
Federal Railroad Administration	6,319	2	0	2,253	3,142	229	100	593
Federal Transit Administration	13,176	3,487	0	0	3,663	386	5,640	0
Office of the Secretary of Transportation	52,716	0	0	0	0	0	52,716	0
Department of the Treasury	35,027	2,250	6,300	14,300	0	0	0	12,177
Bureau of Engraving and Printing	35,027	2,250	6,300	14,300	0	0	0	12,177
Department of Veterans Affairs	35,791	35,791	0	0	0	0	0	0
Other agencies								
Agency for International Development	52,106	5,437	0	6,950	18,135	15,685	0	5,900
Environmental Protection Agency	120,420	67,438	0	52,982	0	0	0	0
National Aeronautics and Space Administration	4,743,349	533,952	925,021	2,734,373	530,664	8,631	2,210	8,500
Tennessee Valley Authority	99,000	0	0	91,080	0	7,920	0	0

* = amount greater than \$0 but less than \$500.

FFRDC = federally funded research and development center.

^a Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, and actual federal performance.

^b Higher education includes both public and private institutions as well as University Affiliated Research Centers.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 37. Preliminary federal obligations for experimental development, by agency and performer: FY 2025

(Dollars in thousands)

Agency	Total	Intramural		Extramural				Non-U.S. performers
		Federal agencies ^a	FFRDCs	United States and U.S. territories				
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
All agencies	98,815,147	33,728,372	4,542,750	54,131,563	3,546,447	2,341,713	193,982	330,320
Departments								
Department of Agriculture	284,406	229,674	0	1,354	40,082	2,933	9,677	687
Agricultural Marketing Service	9,199	0	0	0	2,623	157	6,419	0
Agricultural Research Service	179,000	157,608	0	0	18,964	1,725	17	687
Animal and Plant Health Inspection Service	43,083	19,000	0	1,354	18,436	1,051	3,241	0
Forest Service	49,034	49,034	0	0	0	0	0	0
National Agricultural Statistics Service	4,091	4,032	0	0	59	0	0	0
Department of Commerce	7,958,860	7,149,326	1	611,740	123,258	39,538	27	34,969
Census Bureau	165,119	164,812	0	0	0	307	0	0
National Institute of Standards and Technology	7,184,044	6,877,147	0	283,992	21,709	1,196	0	0
National Oceanic and Atmospheric Administration	199,270	107,366	1	98	91,588	183	27	7
National Telecommunications and Information Administration	410,426	0	0	327,651	9,961	37,852	0	34,963
Department of Defense, total experimental development	82,113,549	25,425,503	2,411,407	49,247,163	2,519,928	2,223,476	14,768	271,305
Defense Advanced Research Projects Agency	2,302,690	160,082	42,521	1,814,445	234,470	42,934	0	8,237
Defense Health Agency	1,998,761	237,388	10,883	474,496	630,756	582,126	0	63,112
Department of the Air Force	26,794,628	6,332,763	683,681	19,042,282	441,609	202,899	8,453	82,942
Air Force	16,174,860	5,563,531	288,698	9,790,911	353,140	178,059	521	0
Space Force	10,619,768	769,232	394,983	9,251,372	88,469	24,839	7,932	82,942
Department of the Army	12,865,916	3,770,556	120,669	7,976,572	255,367	736,433	8	6,311
Department of the Navy	20,513,050	7,856,250	428,861	11,563,384	503,070	139,932	51	21,502
Other defense agencies	17,638,504	7,068,463	1,124,792	8,375,984	454,655	519,152	6,256	89,201
Department of Defense, advanced technology	11,503,829	2,876,986	254,069	5,153,357	1,558,382	1,514,380	2,778	143,878
Defense Advanced Research Projects Agency	2,120,906	90,869	42,521	1,702,053	234,460	42,767	0	8,236
Defense Health Agency	1,638,884	132,407	3,280	278,198	622,446	548,898	0	53,655
Department of the Air Force	1,758,141	455,708	22,495	1,044,343	171,441	63,633	521	0
Air Force	1,331,197	434,379	0	675,571	157,393	63,333	521	0
Space Force	426,944	21,329	22,495	368,772	14,048	300	0	0
Department of the Army	1,509,493	894,839	18,862	63,680	205,584	324,423	0	2,104
Department of the Navy	1,323,651	372,394	49,452	671,575	141,314	88,598	1	318
Other defense agencies	3,152,754	930,768	117,459	1,393,508	183,137	446,061	2,256	79,565
Department of Defense, major systems	70,609,720	22,548,517	2,157,338	44,093,806	961,546	709,096	11,990	127,427
Defense Advanced Research Projects Agency	181,784	69,213	0	112,393	11	167	0	*
Defense Health Agency	359,877	104,981	7,603	196,298	8,310	33,228	0	9,457

Table 37. Preliminary federal obligations for experimental development, by agency and performer: FY 2025

(Dollars in thousands)

Agency	Total	Intramural		Extramural				Non-U.S. performers
		Federal agencies ^a	FFRDCs	United States and U.S. territories				
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
Department of the Air Force	25,036,487	5,877,055	661,186	17,997,939	270,167	139,265	7,932	82,942
Air Force	14,843,663	5,129,152	288,698	9,115,340	195,746	114,726	0	0
Space Force	10,192,824	747,903	372,488	8,882,600	74,421	24,539	7,932	82,942
Department of the Army	11,356,423	2,875,717	101,806	7,912,891	49,783	412,010	8	4,207
Department of the Navy	19,189,399	7,483,857	379,409	10,891,808	361,757	51,334	50	21,184
Other defense agencies	14,485,749	6,137,695	1,007,333	6,982,476	271,518	73,091	4,000	9,636
Department of Education	105,265	0	0	8,451	53,447	28,714	14,654	0
Department of Energy	2,667,875	134,416	1,104,487	1,189,748	219,778	7,388	12,033	24
Advanced Research Projects Agency—Energy	115,000	251	11,844	57,208	40,369	5,329	0	0
Electricity Delivery and Energy Reliability	92,666	547	78,375	10,491	1,053	1,912	287	0
Energy Efficiency and Renewable Energy	977,335	6,536	551,724	229,301	178,028	0	11,746	0
Environmental Management	25,841	0	18,347	7,494	0	0	0	0
National Nuclear Security Administration	1,271,419	114,395	301,754	854,941	328	0	0	0
Defense Programs	372,248	52,855	192,262	127,131	0	0	0	0
Naval Nuclear Propulsion Program	780,210	61,540	0	718,670	0	0	0	0
Office of Defense Nuclear Nonproliferation	118,961	0	109,492	9,140	328	0	0	0
Nuclear Energy	185,614	12,688	142,443	30,313	0	146	0	24
Department of Health and Human Services	52,228	38,950	0	780	11,360	575	0	562
Agency for Healthcare Research and Quality	36,055	36,055	0	0	0	0	0	0
Centers for Disease Control and Prevention	16,173	2,895	0	780	11,360	575	0	562
Department of Homeland Security	127,479	37,664	19,302	37,619	14,916	17,904	0	74
Coast Guard	548	531	0	17	0	0	0	0
Countering Weapons of Mass Destruction Office	6,790	27	180	6,583	0	0	0	0
Science and Technology Directorate	106,000	35,197	15,722	22,187	14,916	17,904	0	74
Secret Service	3,434	1,100	1,000	1,334	0	0	0	0
Transportation Security Administration	10,707	809	2,400	7,499	0	0	0	0
Department of the Interior	42,008	30,506	81	4,052	6,079	1,028	263	0
Bureau of Land Management	2,361	1,016	81	0	848	417	0	0
Bureau of Reclamation	5,068	682	0	1,641	1,966	580	200	0
Bureau of Safety and Environmental Enforcement	2,230	0	0	2,230	0	0	0	0
Geological Survey	32,349	28,808	0	181	3,265	31	63	0
Department of Justice	33,368	2,038	0	20,724	1,475	4,631	4,500	0
Bureau of Prisons	6,083	1,583	0	0	0	0	4,500	0
Federal Bureau of Investigation	20,849	0	0	19,724	1,124	0	0	0
Office of Justice Programs	6,437	455	0	1,000	351	4,631	0	0

Table 37. Preliminary federal obligations for experimental development, by agency and performer: FY 2025

(Dollars in thousands)

Agency	Total	Intramural		Extramural				Non-U.S. performers
		Federal agencies ^a	FFRDCs	United States and U.S. territories				
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
Department of Transportation	347,629	31,993	63,856	94,955	19,326	1,674	135,825	0
Federal Aviation Administration	196,737	23,519	63,707	91,355	18,001	154	0	0
Federal Highway Administration	39,518	4,694	0	0	0	0	34,823	0
Federal Motor Carrier Safety Administration	2,928	2,779	149	0	0	0	0	0
Federal Railroad Administration	6,600	1,000	0	3,600	0	1,000	1,000	0
Federal Transit Administration	1,846	0	0	0	1,324	520	2	0
Office of the Secretary of Transportation	100,000	0	0	0	0	0	100,000	0
Department of the Treasury	64,412	3,100	7,900	39,312	0	0	0	14,100
Bureau of Engraving and Printing	64,412	3,100	7,900	39,312	0	0	0	14,100
Department of Veterans Affairs	36,000	36,000	0	0	0	0	0	0
Other agencies								
Environmental Protection Agency	119,873	69,078	0	50,794	0	0	0	0
National Aeronautics and Space Administration	4,798,195	540,126	935,716	2,765,990	536,800	8,731	2,235	8,598
Tennessee Valley Authority	64,000	0	0	58,880	0	5,120	0	0

* = amount greater than \$0 but less than \$500.

FFRDC = federally funded research and development center.

^a Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, and actual federal performance.^b Higher education includes both public and private institutions as well as University Affiliated Research Centers.**Note(s):**Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2 at https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables).**Source(s):**

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 38. Federal obligations for experimental development, by detailed field of R&D: FYs 2024–25

(Dollars in thousands)

Field	2024	2025 (preliminary)
All fields	94,686,812	98,815,147
Computer and information sciences	4,477,044	4,325,848
Geosciences, atmospheric sciences, and ocean sciences	864,376	786,912
Atmospheric science and meteorology	165,211	NA
Geological and earth sciences	29,454	NA
Ocean sciences and marine sciences	70,985	NA
Other geosciences, atmospheric sciences, and ocean sciences	598,726	NA
Life sciences	7,026,368	5,179,147
Agricultural sciences	72,257	NA
Biological and biomedical sciences	2,907,419	NA
Health sciences	3,826,308	NA
Natural resources and conservation	65,587	NA
Other life sciences	154,797	NA
Mathematics and statistics	293,407	294,564
Physical sciences	4,407,422	4,558,532
Astronomy and astrophysics	584,338	NA
Chemistry	529,572	NA
Materials science	140,854	NA
Physics	1,000,079	NA
Other physical sciences	2,152,579	NA
Psychology	452,576	451,562
Biological aspects	1,040	NA
Social aspects	508	NA
Other psychological sciences	451,028	NA
Social sciences	219,962	194,221
Anthropology	0	NA
Economics	16,936	NA
Political science and government	27,154	NA
Sociology, demography, and population studies	30,984	NA
Other social sciences	144,889	NA
Engineering	53,501,688	58,526,141
Aerospace, aeronautical, and astronautical engineering	23,727,432	NA
Bioengineering and biomedical engineering	858,984	NA
Chemical engineering	658,114	NA
Civil engineering	655,144	NA
Electrical, electronics, and communications engineering	3,554,932	NA
Industrial and manufacturing engineering	1,300,333	NA
Mechanical engineering	929,574	NA
Metallurgical and materials engineering	1,114,820	NA
Other engineering	20,702,355	NA
Other fields	23,443,968	24,498,220
Business management and business administration	863,739	NA
Communication and communications technologies	346,067	NA
Education research	198,654	NA
Humanities	0	NA
Law	10,340	NA
Social work	6,914	NA
Visual and performing arts	26,330	NA
All other fields	21,991,925	NA

NA = not available; agency did not provide data.

Note(s):

Because of rounding, detail may not add to total.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024-25.

Table 39. Federal obligations for experimental development, by agency and field of R&D: FY 2024

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
All agencies	94,686,812	4,477,044	864,376	7,026,368	293,407	4,407,422	452,576	219,962	53,501,688	23,443,968
Departments										
Department of Agriculture	294,633	24,308	816	77,527	3,750	908	0	6,764	1,815	178,745
Agricultural Marketing Service	14,628	0	0	14,628	0	0	0	0	0	0
Agricultural Research Service	178,745	0	0	0	0	0	0	0	0	178,745
Animal and Plant Health Inspection Service	42,849	0	0	42,849	0	0	0	0	0	0
Forest Service	54,356	24,308	816	19,744	0	908	0	6,764	1,815	0
National Agricultural Statistics Service	3,750	0	0	0	3,750	0	0	0	0	0
Natural Resources Conservation Service	305	0	0	305	0	0	0	0	0	0
Department of Commerce	730,562	62,928	173,047	9,820	7,952	7,971	13	102,349	358,396	8,087
Census Bureau	165,119	62,415	0	0	7,423	0	13	95,175	0	94
National Institute of Standards and Technology	341,127	0	0	186	274	5,154	0	0	335,514	0
National Oceanic and Atmospheric Administration	202,586	512	173,047	9,635	256	2,817	0	7,174	1,152	7,993
National Telecommunications and Information Administration	21,729	0	0	0	0	0	0	0	21,729	0
Department of Defense	84,669,431	4,263,680	225,365	6,721,775	278,081	2,276,682	452,564	73,904	47,966,737	22,410,643
Defense Advanced Research Projects Agency	2,367,121	299,069	0	307	2,007	215,290	0	0	879,635	970,812
Defense Health Agency	2,614,986	53,809	0	2,546,733	0	0	7,379	0	0	7,065
Department of the Air Force	25,179,189	249,186	789	1,459	3,104	480,368	550	0	15,947,263	8,496,470
Air Force	15,752,281	202,278	0	1,459	3,104	454,741	550	0	9,202,855	5,887,295
Space Force	9,426,908	46,908	789	0	0	25,627	0	0	6,744,408	2,609,176
Department of the Army	13,457,852	1,680,222	117,713	3,632,662	272,970	927,026	431,677	57,615	1,003,108	5,334,859
Department of the Navy	21,942,693	160,876	76,774	39,391	0	215,662	11,978	14,710	15,613,390	5,809,913
Other defense agencies	19,107,590	1,820,519	30,089	501,223	0	438,336	980	1,579	14,523,340	1,791,524
Department of Education	105,265	0	0	0	0	0	0	0	0	105,265
Department of Energy	3,058,144	30,896	22,243	7,329	2,583	106,520	0	0	2,826,153	62,420
Advanced Research Projects Agency—Energy	248,211	11,778	284	7,023	0	27,032	0	0	202,094	0
Electricity Delivery and Energy Reliability	81,080	0	0	0	0	0	0	0	81,080	0
Energy Efficiency and Renewable Energy	977,335	0	0	0	0	0	0	0	977,335	0
Environmental Management	21,917	0	21,917	0	0	0	0	0	0	0

Table 39. Federal obligations for experimental development, by agency and field of R&D: FY 2024

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
National Nuclear Security Administration	1,518,334	19,118	43	307	2,583	79,488	0	0	1,354,377	62,420
Defense Programs	597,035	0	0	0	0	7	0	0	597,028	0
Naval Nuclear Propulsion Program	807,370	0	0	0	0	0	0	0	745,830	61,540
Office of Defense Nuclear Nonproliferation	113,928	19,118	43	307	2,583	79,480	0	0	11,519	880
Nuclear Energy	211,268	0	0	0	0	0	0	0	211,268	0
Department of Health and Human Services	56,287	36,061	0	15,401	125	0	0	0	4,701	0
Agency for Healthcare Research and Quality	36,055	36,055	0	0	0	0	0	0	0	0
Centers for Disease Control and Prevention	20,232	6	0	15,401	125	0	0	0	4,701	0
Department of Homeland Security	299,118	57,022	21,094	44,057	0	19,900	0	33,283	111,718	12,044
Coast Guard	443	10	0	3	0	9	0	0	416	5
Countering Weapons of Mass Destruction Office	14,517	6,502	0	3,043	0	4,973	0	0	0	0
Science and Technology Directorate	267,179	39,666	21,094	41,011	0	14,918	0	33,283	105,169	12,038
Secret Service	3,560	80	0	0	0	0	0	0	3,480	0
Transportation Security Administration	13,419	10,765	0	0	0	0	0	0	2,654	0
Department of the Interior	37,302	500	13,431	16,463	0	499	0	631	5,778	0
Bureau of Land Management	327	0	0	327	0	0	0	0	0	0
Bureau of Reclamation	4,068	0	0	0	0	0	0	0	4,068	0
Bureau of Safety and Environmental Enforcement	442	0	0	0	0	67	0	0	375	0
Geological Survey	32,466	500	13,431	16,136	0	432	0	631	1,335	0
Department of Justice	28,772	0	0	0	0	3,047	0	2,336	0	23,389
Bureau of Prisons	6,914	0	0	0	0	0	0	0	0	6,914
Federal Bureau of Investigation	16,475	0	0	0	0	0	0	0	0	16,475
Office of Justice Programs	5,383	0	0	0	0	3,047	0	2,336	0	0
Department of State	11,463	0	0	11,463	0	0	0	0	0	0
Department of Transportation	310,142	0	0	0	0	4,775	0	0	112,119	193,247
Federal Aviation Administration	191,007	0	0	0	0	0	0	0	0	191,007
Federal Highway Administration	42,148	0	0	0	0	0	0	0	42,148	0
Federal Motor Carrier Safety Administration	4,775	0	0	0	0	4,775	0	0	0	0
Federal Railroad Administration	6,319	0	0	0	0	0	0	0	5,877	443
Federal Transit Administration	13,176	0	0	0	0	0	0	0	11,378	1,798

Table 39. Federal obligations for experimental development, by agency and field of R&D: FY 2024

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
Office of the Secretary of Transportation	52,716	0	0	0	0	0	0	0	52,716	0
Department of the Treasury	35,027	0	0	0	0	35,027	0	0	0	0
Bureau of Engraving and Printing	35,027	0	0	0	0	35,027	0	0	0	0
Department of Veterans Affairs	35,791	0	0	35,791	0	0	0	0	0	0
Other agencies										
Agency for International Development	52,106	0	0	0	0	0	0	0	0	52,106
Environmental Protection Agency	120,420	1,649	49,632	47,574	916	2,875	0	696	17,078	0
National Aeronautics and Space Administration	4,743,349	0	358,747	39,168	0	1,949,218	0	0	1,998,193	398,023
Tennessee Valley Authority	99,000	0	0	0	0	0	0	0	99,000	0

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 40. Preliminary federal obligations for experimental development, by agency and field of R&D: FY 2025

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
All agencies	98,815,147	4,325,848	786,912	5,179,147	294,564	4,558,532	451,562	194,221	58,526,141	24,498,220
Departments										
Department of Agriculture	284,406	21,928	736	70,093	4,091	819	0	6,102	1,637	179,000
Agricultural Marketing Service	9,199	0	0	9,199	0	0	0	0	0	0
Agricultural Research Service	179,000	0	0	0	0	0	0	0	0	179,000
Animal and Plant Health Inspection Service	43,083	0	0	43,083	0	0	0	0	0	0
Forest Service	49,034	21,928	736	17,811	0	819	0	6,102	1,637	0
National Agricultural Statistics Service	4,091	0	0	0	4,091	0	0	0	0	0
Department of Commerce	7,958,860	62,875	169,527	9,959	7,909	9,035	13	101,602	7,588,996	8,945
Census Bureau	165,119	62,415	0	0	7,423	0	13	95,175	0	94
National Institute of Standards and Technology	7,184,044	0	0	234	263	6,057	0	0	7,177,490	0
National Oceanic and Atmospheric Administration	199,270	459	169,527	9,724	223	2,978	0	6,428	1,080	8,851
National Telecommunications and Information Administration	410,426	0	0	0	0	0	0	0	410,426	0
Department of Defense	82,113,549	4,144,159	230,297	4,960,949	278,218	2,407,447	451,549	70,336	46,330,021	23,240,573
Defense Advanced Research Projects Agency	2,302,690	290,929	0	299	1,953	209,430	0	0	855,692	944,387
Defense Health Agency	1,998,761	61,573	0	1,922,779	0	0	7,062	0	0	7,347
Department of the Air Force	26,794,628	278,973	896	1,517	3,228	494,703	732	0	16,504,520	9,510,059
Air Force	16,174,860	213,959	0	1,517	3,228	470,545	732	0	8,645,051	6,839,828
Space Force	10,619,768	65,014	896	0	0	24,158	0	0	7,859,469	2,670,231
Department of the Army	12,865,916	1,680,222	117,713	2,479,217	272,970	927,026	431,677	57,615	1,564,617	5,334,859
Department of the Navy	20,513,050	135,360	75,401	37,812	0	204,401	11,498	11,000	14,592,622	5,444,956
Other defense agencies	17,638,504	1,697,103	36,287	519,326	67	571,887	580	1,721	12,812,568	1,998,965
Department of Education	105,265	0	0	0	0	0	0	0	0	105,265
Department of Energy	2,667,875	31,158	25,973	3,254	2,305	92,171	0	0	2,451,475	61,540
Advanced Research Projects Agency—Energy	115,000	5,457	131	3,254	0	12,524	0	0	93,633	0
Electricity Delivery and Energy Reliability	92,666	0	0	0	0	0	0	0	92,666	0
Energy Efficiency and Renewable Energy	977,335	0	0	0	0	0	0	0	977,335	0
Environmental Management	25,841	0	25,841	0	0	0	0	0	0	0
National Nuclear Security Administration	1,271,419	25,701	0	0	2,305	79,646	0	0	1,102,227	61,540

Table 40. Preliminary federal obligations for experimental development, by agency and field of R&D: FY 2025

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
Defense Programs	372,248	0	0	0	0	0	0	0	372,248	0
Naval Nuclear Propulsion Program	780,210	0	0	0	0	0	0	0	718,670	61,540
Office of Defense Nuclear Nonproliferation	118,961	25,701	0	0	2,305	79,646	0	0	11,309	0
Nuclear Energy	185,614	0	0	0	0	0	0	0	185,614	0
Department of Health and Human Services	52,228	36,055	0	13,884	130	0	0	0	2,159	0
Agency for Healthcare Research and Quality	36,055	36,055	0	0	0	0	0	0	0	0
Centers for Disease Control and Prevention	16,173	0	0	13,884	130	0	0	0	2,159	0
Department of Homeland Security	127,479	27,534	4,300	17,642	0	7,674	0	12,500	49,723	8,107
Coast Guard	548	13	0	4	0	11	0	0	514	7
Countering Weapons of Mass Destruction Office	6,790	3,994	0	1,333	0	1,463	0	0	0	0
Science and Technology Directorate	106,000	15,390	4,300	16,305	0	5,100	0	12,500	44,305	8,100
Secret Service	3,434	450	0	0	0	1,100	0	0	1,884	0
Transportation Security Administration	10,707	7,687	0	0	0	0	0	0	3,020	0
Department of the Interior	42,008	498	13,383	18,439	0	767	0	629	8,292	0
Bureau of Land Management	2,361	0	0	2,361	0	0	0	0	0	0
Bureau of Reclamation	5,068	0	0	0	0	0	0	0	5,068	0
Bureau of Safety and Environmental Enforcement	2,230	0	0	0	0	336	0	0	1,894	0
Geological Survey	32,349	498	13,383	16,078	0	430	0	629	1,330	0
Department of Justice	33,368	0	0	0	1,000	3,078	0	2,359	0	26,932
Bureau of Prisons	6,083	0	0	0	0	0	0	0	0	6,083
Federal Bureau of Investigation	20,849	0	0	0	0	0	0	0	0	20,849
Office of Justice Programs	6,437	0	0	0	1,000	3,078	0	2,359	0	0
Department of Transportation	347,629	0	0	0	0	2,928	0	0	147,963	196,737
Federal Aviation Administration	196,737	0	0	0	0	0	0	0	0	196,737
Federal Highway Administration	39,518	0	0	0	0	0	0	0	39,518	0
Federal Motor Carrier Safety Administration	2,928	0	0	0	0	2,928	0	0	0	0
Federal Railroad Administration	6,600	0	0	0	0	0	0	0	6,600	0
Federal Transit Administration	1,846	0	0	0	0	0	0	0	1,846	0
Office of the Secretary of Transportation	100,000	0	0	0	0	0	0	0	100,000	0
Department of the Treasury	64,412	0	0	0	0	64,412	0	0	0	0

Table 40. Preliminary federal obligations for experimental development, by agency and field of R&D: FY 2025

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
Bureau of Engraving and Printing	64,412	0	0	0	0	64,412	0	0	0	0
Department of Veterans Affairs	36,000	0	0	36,000	0	0	0	0	0	0
Other agencies										
Environmental Protection Agency	119,873	1,642	49,407	47,357	912	2,862	0	692	17,000	0
National Aeronautics and Space Administration	4,798,195	0	293,290	1,570	0	1,967,339	0	0	1,864,875	671,122
Tennessee Valley Authority	64,000	0	0	0	0	0	0	0	64,000	0

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 41. Federal obligations and outlays for R&D plant, by agency: FYs 2024–25

(Dollars in thousands)

Agency	Obligations		Outlays	
	2024	2025 (preliminary)	2024	2025 (preliminary)
All agencies	5,212,296	4,647,202	5,104,544	4,827,485
Departments				
Department of Agriculture	137,797	61,325	110,604	126,336
Agricultural Research Service	137,366	61,000	109,987	126,000
Natural Resources Conservation Service	431	325	618	336
Department of Commerce	910,753	666,783	713,994	688,427
National Institute of Standards and Technology	135,442	99,370	137,980	124,000
National Oceanic and Atmospheric Administration	653,432	564,663	462,000	564,427
National Telecommunications and Information Administration	121,879	2,749	114,014	0
Department of Defense	234,675	231,093	247,509	233,430
Department of the Air Force	175,818	173,039	186,050	175,341
Air Force	175,783	172,317	186,015	174,620
Space Force	35	722	35	722
Department of the Navy	49,726	49,726	49,726	49,696
Other defense agencies	9,131	8,328	11,733	8,393
Department of Energy	2,914,704	2,731,390	3,028,355	2,656,589
Energy Efficiency and Renewable Energy	57,630	57,630	57,630	57,630
Fossil Energy	25,000	25,000	25,800	26,200
National Nuclear Security Administration	1,012,117	969,796	1,151,702	965,582
Defense Programs	590,888	556,123	619,859	551,909
Naval Nuclear Propulsion Program	255,084	247,528	365,698	247,528
Office of Defense Nuclear Nonproliferation	166,145	166,145	166,145	166,145
Nuclear Energy	330,466	343,176	223,032	271,388
Office of Science	1,489,491	1,335,789	1,570,191	1,335,789
Department of Health and Human Services	389,427	387,012	363,348	436,510
Biomedical Advanced Research and Development Authority	2,402	1	2,402	1
Food and Drug Administration	3,856	3,511	44,027	40,065
Health Resources and Services Administration	3,169	3,500	3,169	3,500
National Institutes of Health	380,000	380,000	313,749	392,944
Department of Homeland Security	3,687	6,028	21,000	31,501
Coast Guard	501	0	0	501
Science and Technology Directorate	2,166	4,000	20,000	30,000
Secret Service	0	1,005	0	0
Transportation Security Administration	1,020	1,023	1,000	1,000
Department of the Interior	8,683	8,599	8,766	8,599
Bureau of Reclamation	2,972	1,950	2,972	1,950
Bureau of Safety and Environmental Enforcement	5,711	6,649	5,795	6,649
Department of Transportation	37,206	37,059	48,524	58,293
Federal Aviation Administration	28,094	28,656	42,000	46,000
Federal Highway Administration	490	403	490	403
Federal Railroad Administration	8,622	8,000	6,034	11,890
Other agencies				
Environmental Protection Agency	4,800	2,800	4,800	2,800
National Aeronautics and Space Administration	62,917	25,800	73,644	55,000
National Science Foundation	507,648	489,313	484,000	530,000

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations or outlays in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 42. Federal obligations for R&D plant, by agency and performer: FY 2024

(Dollars in thousands)

Agency	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories			Non-U.S. performers	
				Businesses	Higher education ^b	Nonprofit organizations		State and local governments
All agencies	5,212,296	1,378,150	2,364,439	969,903	376,059	117,104	4,614	2,026
Departments								
Department of Agriculture	137,797	137,601	0	0	196	0	0	0
Agricultural Research Service	137,366	137,366	0	0	0	0	0	0
Natural Resources Conservation Service	431	235	0	0	196	0	0	0
Department of Commerce	910,753	617,131	0	293,622	0	0	0	0
National Institute of Standards and Technology	135,442	135,442	0	0	0	0	0	0
National Oceanic and Atmospheric Administration	653,432	481,689	0	171,743	0	0	0	0
National Telecommunications and Information Administration	121,879	0	0	121,879	0	0	0	0
Department of Defense	234,675	222,425	0	12,250	0	0	0	0
Department of the Air Force	175,818	169,323	0	6,494	0	0	0	0
Air Force	175,783	169,323	0	6,459	0	0	0	0
Space Force	35	0	0	35	0	0	0	0
Department of the Navy	49,726	44,785	0	4,942	0	0	0	0
Other defense agencies	9,131	8,317	0	814	0	0	0	0
Department of Energy	2,914,704	58,282	2,363,889	487,893	26	0	4,614	0
Energy Efficiency and Renewable Energy	57,630	0	57,630	0	0	0	0	0
Fossil Energy	25,000	25,000	0	0	0	0	0	0
National Nuclear Security Administration	1,012,117	30,004	494,892	487,216	4	0	0	0
Defense Programs	590,888	30,004	328,747	232,132	4	0	0	0
Naval Nuclear Propulsion Program	255,084	0	0	255,084	0	0	0	0
Office of Defense Nuclear Nonproliferation	166,145	0	166,145	0	0	0	0	0
Nuclear Energy	330,466	3,278	324,954	677	22	0	1,536	0
Office of Science	1,489,491	0	1,486,412	0	0	0	3,079	0
Department of Health and Human Services	389,427	300,193	0	2,402	79,100	7,732	0	0
Biomedical Advanced Research and Development Authority	2,402	0	0	2,402	0	0	0	0
Food and Drug Administration	3,856	3,856	0	0	0	0	0	0
Health Resources and Services Administration	3,169	3,169	0	0	0	0	0	0
National Institutes of Health	380,000	293,168	0	0	79,100	7,732	0	0
Department of Homeland Security	3,687	1,937	0	1,751	0	0	0	0
Coast Guard	501	0	0	501	0	0	0	0
Science and Technology Directorate	2,166	1,937	0	230	0	0	0	0
Transportation Security Administration	1,020	0	0	1,020	0	0	0	0
Department of the Interior	8,683	2,709	0	5,902	0	73	0	0

Table 42. Federal obligations for R&D plant, by agency and performer: FY 2024

(Dollars in thousands)

Agency	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories			Non-U.S. performers	
				Businesses	Higher education ^b	Nonprofit organizations		State and local governments
Bureau of Reclamation	2,972	2,408	0	491	0	73	0	0
Bureau of Safety and Environmental Enforcement	5,711	301	0	5,410	0	0	0	0
Department of Transportation	37,206	0	0	36,666	490	0	0	50
Federal Aviation Administration	28,094	0	0	28,044	0	0	0	50
Federal Highway Administration	490	0	0	0	490	0	0	0
Federal Railroad Administration	8,622	0	0	8,622	0	0	0	0
Other agencies								
Environmental Protection Agency	4,800	0	0	4,800	0	0	0	0
National Aeronautics and Space Administration	62,917	1,014	550	59,553	0	0	0	1,800
National Science Foundation	507,648	36,859	0	65,065	296,247	109,299	0	176

FFRDC = federally funded research and development center.

^a Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, and actual federal performance.

^b Higher education includes both public and private institutions as well as University Affiliated Research Centers.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://ncses.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://ncses.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 43. Preliminary federal obligations for R&D plant, by agency and performer: FY 2025

(Dollars in thousands)

Agency	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories			Non-U.S. performers	
				Businesses	Higher education ^b	Nonprofit organizations		State and local governments
All agencies	4,647,202	1,361,019	2,273,735	516,670	376,622	113,427	4,770	959
Departments								
Department of Agriculture	61,325	61,325	0	0	0	0	0	0
Agricultural Research Service	61,000	61,000	0	0	0	0	0	0
Natural Resources Conservation Service	325	325	0	0	0	0	0	0
Department of Commerce	666,783	664,033	0	2,749	0	0	0	0
National Institute of Standards and Technology	99,370	99,370	0	0	0	0	0	0
National Oceanic and Atmospheric Administration	564,663	564,663	0	0	0	0	0	0
National Telecommunications and Information Administration	2,749	0	0	2,749	0	0	0	0
Department of Defense	231,093	218,166	0	12,927	0	0	0	0
Department of the Air Force	173,039	165,632	0	7,407	0	0	0	0
Air Force	172,317	165,632	0	6,685	0	0	0	0
Space Force	722	0	0	722	0	0	0	0
Department of the Navy	49,726	44,785	0	4,942	0	0	0	0
Other defense agencies	8,328	7,750	0	578	0	0	0	0
Department of Energy	2,731,390	74,915	2,273,510	366,395	11,570	230	4,770	0
Energy Efficiency and Renewable Energy	57,630	0	57,630	0	0	0	0	0
Fossil Energy	25,000	25,000	0	0	0	0	0	0
National Nuclear Security Administration	969,796	47,258	555,649	358,361	8,298	230	0	0
Defense Programs	556,123	47,258	389,504	110,833	8,298	230	0	0
Naval Nuclear Propulsion Program	247,528	0	0	247,528	0	0	0	0
Office of Defense Nuclear Nonproliferation	166,145	0	166,145	0	0	0	0	0
Nuclear Energy	343,176	2,657	338,401	334	13	0	1,770	0
Office of Science	1,335,789	0	1,321,830	7,700	3,259	0	3,000	0
Department of Health and Human Services	387,012	300,179	0	1	79,100	7,732	0	0
Biomedical Advanced Research and Development Authority	1	0	0	1	0	0	0	0
Food and Drug Administration	3,511	3,511	0	0	0	0	0	0
Health Resources and Services Administration	3,500	3,500	0	0	0	0	0	0
National Institutes of Health	380,000	293,168	0	0	79,100	7,732	0	0
Department of Homeland Security	6,028	4,581	0	1,447	0	0	0	0
Science and Technology Directorate	4,000	3,576	0	424	0	0	0	0
Secret Service	1,005	1,005	0	0	0	0	0	0
Transportation Security Administration	1,023	0	0	1,023	0	0	0	0
Department of the Interior	8,599	1,876	0	6,610	0	113	0	0

Table 43. Preliminary federal obligations for R&D plant, by agency and performer: FY 2025

(Dollars in thousands)

Agency	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories			Non-U.S. performers	
				Businesses	Higher education ^b	Nonprofit organizations		State and local governments
Bureau of Reclamation	1,950	1,510	0	327	0	113	0	0
Bureau of Safety and Environmental Enforcement	6,649	366	0	6,283	0	0	0	0
Department of Transportation	37,059	0	0	36,605	403	0	0	51
Federal Aviation Administration	28,656	0	0	28,605	0	0	0	51
Federal Highway Administration	403	0	0	0	403	0	0	0
Federal Railroad Administration	8,000	0	0	8,000	0	0	0	0
Other agencies								
Environmental Protection Agency	2,800	0	0	2,800	0	0	0	0
National Aeronautics and Space Administration	25,800	416	226	24,421	0	0	0	738
National Science Foundation	489,313	35,528	0	62,716	285,548	105,352	0	170

FFRDC = federally funded research and development center.

^a Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, and actual federal performance.

^b Higher education includes both public and private institutions as well as University Affiliated Research Centers.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://ncses.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://ncses.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 44. Federal obligations to University Affiliated Research Centers, by type of R&D and R&D plant: FY 2024

(Dollars in thousands)

UARC	Total R&D and R&D plant	Type of R&D			R&D plant	
		Total R&D	Basic research	Applied research		Experimental development
All UARCs	2,180,702	2,180,702	171,642	377,491	1,631,568	0
Georgia Institute of Technology, Georgia Tech Research Institute	110,715	110,715	13,615	26,987	70,113	0
Howard University Research Institute for Tactical Autonomy	28,971	28,971	1,329	4,822	22,820	0
Johns Hopkins University Applied Physics Laboratory	1,294,040	1,294,040	57,262	121,207	1,115,571	0
Massachusetts Institute of Technology Institute for Soldier Nanotechnologies	72,055	72,055	44,976	6,318	20,761	0
Pennsylvania State University Applied Research Laboratory	129,168	129,168	24,193	5,564	99,412	0
Stevens Institute of Technology Systems Engineering Research Center	19,751	19,751	10,256	2,473	7,023	0
University of Alaska Geophysical Detection of Nuclear Proliferation	1,925	1,925	0	0	1,925	0
University of California, Santa Barbara Institute for Collaborative Biotechnologies	15,887	15,887	15,155	732	0	0
University of Hawaii, Manoa Applied Research Laboratory	11,190	11,190	0	9,090	2,100	0
University of Maryland College Park Applied Research Laboratory for Intelligence and Security	58,297	58,297	852	42,439	15,006	0
University of Nebraska National Strategic Research Institute	41,454	41,454	0	18,482	22,973	0
University of Southern California Institute for Creative Technologies	95,286	95,286	0	64,725	30,561	0
University of Texas at Austin Applied Research Laboratories	83,002	83,002	922	45,836	36,244	0
University of Washington Applied Physics Laboratory	5,510	5,510	0	0	5,510	0
Utah State University Space Dynamics Laboratory	213,450	213,450	3,083	28,815	181,552	0

UARC = University Affiliated Research Center.

Note(s):

Because of rounding, detail may not add to total. UARCs are research organizations within a university or college that are established by the Office of the Undersecretary of Defense for Research and Engineering to provide or maintain essential engineering, research, and development capabilities through a long-term strategic relationship.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 45. Federal obligations to University Affiliated Research Centers for research and experimental development, by agency: FY 2024

(Dollars in thousands)

UARC	Total	DHS	DOD	DOE	DOI	DOT	HHS	NASA	NSF
All UARCs	2,180,702	4,074	1,579,512	136,220	132	7,565	14,585	428,299	10,315
Georgia Institute of Technology, Georgia Tech Research Institute	110,715	0	75,639	35,076	0	0	0	0	0
Howard University Research Institute for Tactical Autonomy	28,971	0	27,642	1,329	0	0	0	0	0
Johns Hopkins University Applied Physics Laboratory	1,294,040	4,074	833,630	13,520	0	4,533	13,989	424,294	0
Massachusetts Institute of Technology Institute for Soldier Nanotechnologies	72,055	0	23,979	48,076	0	0	0	0	0
Pennsylvania State University Applied Research Laboratory	129,168	0	111,471	17,697	0	0	0	0	0
Stevens Institute of Technology Systems Engineering Research Center	19,751	0	8,426	11	0	1,000	0	0	10,315
University of Alaska Geophysical Detection of Nuclear Proliferation	1,925	0	1,925	0	0	0	0	0	0
University of California, Santa Barbara Institute for Collaborative Biotechnologies	15,887	0	440	14,852	0	0	596	0	0
University of Hawaii, Manoa Applied Research Laboratory	11,190	0	7,058	4,000	132	0	0	0	0
University of Maryland College Park Applied Research Laboratory for Intelligence and Security	58,297	0	57,700	0	0	597	0	0	0
University of Nebraska National Strategic Research Institute	41,454	0	41,454	0	0	0	0	0	0
University of Southern California Institute for Creative Technologies	95,286	0	94,626	660	0	0	0	0	0
University of Texas at Austin Applied Research Laboratories	83,002	0	81,080	1,000	0	0	0	922	0
University of Washington Applied Physics Laboratory	5,510	0	5,510	0	0	0	0	0	0
Utah State University Space Dynamics Laboratory	213,450	0	208,932	0	0	1,436	0	3,083	0

DHS = Department of Homeland Security; DOD = Department of Defense; DOE = Department of Energy; DOI = Department of the Interior; DOT = Department of Transportation; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; UARC = University Affiliated Research Center.

Note(s):

Because of rounding, detail may not add to total. UARCs are research organizations within a university or college that are established by the Office of the Undersecretary of Defense for Research and Engineering to provide or maintain essential engineering, research, and development capabilities through a long-term strategic relationship. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 46. Federal obligations to University Affiliated Research Centers for R&D plant: FY 2024

(Dollars in thousands)

UARC	Total
All UARCs	0
Georgia Institute of Technology, Georgia Tech Research Institute	0
Howard University Research Institute for Tactical Autonomy	0
Johns Hopkins University Applied Physics Laboratory	0
Massachusetts Institute of Technology Institute for Soldier Nanotechnologies	0
Pennsylvania State University Applied Research Laboratory	0
Stevens Institute of Technology Systems Engineering Research Center	0
University of Alaska Geophysical Detection of Nuclear Proliferation	0
University of California, Santa Barbara Institute for Collaborative Biotechnologies	0
University of Hawaii, Manoa Applied Research Laboratory	0
University of Maryland College Park Applied Research Laboratory for Intelligence and Security	0
University of Nebraska National Strategic Research Institute	0
University of Southern California Institute for Creative Technologies	0
University of Texas at Austin Applied Research Laboratories	0
University of Washington Applied Physics Laboratory	0
Utah State University Space Dynamics Laboratory	0

UARC = University Affiliated Research Center.

Note(s):

UARCs are research organizations within a university or college that are established by the Office of the Undersecretary of Defense for Research and Engineering to provide or maintain essential engineering, research, and development capabilities through a long-term strategic relationship. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 47. Federal obligations for research performed at higher education institutions, by detailed field of R&D: FY 2024

(Dollars in thousands)

Field	2024
All fields	40,503,323
Computer and information sciences	1,436,709
Geosciences, atmospheric sciences, and ocean sciences	2,181,995
Atmospheric science and meteorology	318,076
Geological and earth sciences	215,382
Ocean sciences and marine sciences	515,660
Other geosciences, atmospheric sciences, and ocean sciences	1,132,876
Life sciences	18,849,451
Agricultural sciences	187,704
Biological and biomedical sciences	10,807,350
Health sciences	5,415,603
Natural resources and conservation	35,207
Other life sciences	2,403,586
Mathematics and statistics	514,796
Physical sciences	3,917,793
Astronomy and astrophysics	462,821
Chemistry	1,379,646
Materials science	351,321
Physics	1,020,681
Other physical sciences	703,323
Psychology	3,495,114
Biological aspects	14,744
Social aspects	11,010
Other psychological sciences	3,469,359
Social sciences	2,006,098
Anthropology	19,170
Economics	89,918
Political science and government	5,669
Sociology, demography, and population studies	70,356
Other social sciences	1,820,986
Engineering	5,003,607
Aerospace, aeronautical, and astronautical engineering	183,824
Bioengineering and biomedical engineering	194,043
Chemical engineering	327,545
Civil engineering	125,457
Electrical, electronics, and communications engineering	251,044
Industrial and manufacturing engineering	41,308
Mechanical engineering	141,150
Metallurgical and materials engineering	403,153
Other engineering	3,336,085
Other fields	3,097,759
Business management and business administration	77,662
Communication and communications technologies	23,098
Education research	812,892
Humanities	3
Law	5,160
Social work	47
Visual and performing arts	0
All other fields	2,178,897

Note(s):

Because of rounding, detail may not add to total.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 48. Federal obligations for research performed at higher education institutions, by agency and field of R&D: FY 2024

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
All agencies	40,503,323	1,436,709	2,181,995	18,849,451	514,796	3,917,793	3,495,114	2,006,098	5,003,607	3,097,759
Departments										
Department of Agriculture	1,288,204	46,714	21,463	864,596	6,557	37,316	5,633	90,288	101,005	114,633
Agricultural Marketing Service	4,134	0	0	4,134	0	0	0	0	0	0
Agricultural Research Service	227,564	296	1,001	209,063	0	14,610	0	546	2,048	0
Animal and Plant Health Inspection Service	8,425	0	0	8,425	0	0	0	0	0	0
Economic Research Service	160	0	0	0	0	0	0	160	0	0
Forest Service	34,523	15	2,720	22,727	494	549	0	5,957	2,061	0
National Agricultural Statistics Service	22	0	0	0	22	0	0	0	0	0
National Institute of Food and Agriculture	998,528	46,403	17,741	605,398	6,041	22,158	5,633	83,624	96,896	114,633
Natural Resources Conservation Service	14,850	0	0	14,850	0	0	0	0	0	0
Department of Commerce	436,112	30,934	235,436	17,919	774	25,149	0	10,339	113,670	1,891
Census Bureau	3,746	37	0	0	599	0	0	3,109	0	0
National Institute of Standards and Technology	161,141	29,149	2,062	6,576	0	14,359	0	0	108,995	0
National Oceanic and Atmospheric Administration	271,225	1,747	233,374	11,343	175	10,790	0	7,230	4,674	1,891
Department of Defense	2,270,175	294,393	246,365	244,097	32,197	221,038	17,135	79,812	1,028,802	106,337
Defense Advanced Research Projects Agency	418,919	168,631	14,457	89,323	4,448	40,864	4,151	0	86,877	10,168
Defense Health Agency	65,925	0	0	65,925	0	0	0	0	0	0
Department of the Air Force	613,318	1,747	0	505	79	73,808	1	164	535,248	1,766
Air Force	613,318	1,747	0	505	79	73,808	1	164	535,248	1,766
Department of the Army	214,048	24,770	144	23,493	6,389	939	5,596	64,886	87,831	0
Department of the Navy	788,724	63,457	226,903	39,650	13,343	73,228	4,961	2,682	280,941	83,558
Other defense agencies	169,241	35,788	4,860	25,201	7,938	32,199	2,426	12,081	37,904	10,844
Department of Education	191,949	0	0	0	0	0	0	0	0	191,949
Department of Energy	1,854,679	72,727	76,341	191,343	22,816	959,481	0	0	526,473	5,498
Advanced Research Projects Agency—Energy	87,130	274	0	3,253	0	11,417	0	0	72,186	0
Electricity Delivery and Energy Reliability	942	0	0	0	0	0	0	0	942	0
Energy Efficiency and Renewable Energy	205,227	0	0	0	0	0	0	0	205,227	0
Environmental Management	1,191	0	1,191	0	0	0	0	0	0	0

Table 48. Federal obligations for research performed at higher education institutions, by agency and field of R&D: FY 2024

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
Fossil Energy	274,528	0	26,080	0	0	43,650	0	0	204,798	0
National Nuclear Security Administration	19,891	0	0	0	0	14,516	0	0	75	5,300
Defense Programs	7,811	0	0	0	0	7,736	0	0	75	0
Office of Defense Nuclear Nonproliferation	12,080	0	0	0	0	6,780	0	0	0	5,300
Nuclear Energy	43,245	0	0	0	0	0	0	0	43,245	0
Office of Cybersecurity, Energy Security, and Emergency Response	31,256	31,256	0	0	0	0	0	0	0	0
Office of Science	1,191,268	41,197	49,069	188,090	22,816	889,898	0	0	0	198
Department of Health and Human Services	27,119,236	115,575	538,509	16,802,779	218,723	888,153	3,431,692	1,600,969	2,168,150	1,354,686
Administration for Children and Families	1,600	0	0	0	0	0	0	1,600	0	0
Administration for Community Living	76,469	0	0	0	0	0	0	76,469	0	0
Advanced Research Projects Agency for Health	555,339	115,575	0	286,288	0	27,232	0	0	109,301	16,943
Agency for Healthcare Research and Quality	115,908	0	0	115,908	0	0	0	0	0	0
Agency for Toxic Substances and Disease Registry	1,518	0	1,518	0	0	0	0	0	0	0
Biomedical Advanced Research and Development Authority	56,195	0	0	56,195	0	0	0	0	0	0
Centers for Disease Control and Prevention	189,189	0	0	145,055	0	15	0	40,292	3,827	0
Centers for Medicare and Medicaid Services	2,683	0	0	2,683	0	0	0	0	0	0
Food and Drug Administration	90,790	0	0	90,790	0	0	0	0	0	0
Health Resources and Services Administration	73,505	0	0	73,505	0	0	0	0	0	0
National Institutes of Health	25,955,958	0	536,990	16,032,355	218,723	860,907	3,431,692	1,482,526	2,055,022	1,337,743
Office of the Secretary of Health and Human Services	82	0	0	0	0	0	0	82	0	0
Office of the Assistant Secretary for Planning and Evaluation	82	0	0	0	0	0	0	82	0	0
Department of Homeland Security	37,909	999	9,200	4,369	0	4,726	0	4,600	9,332	4,683
Coast Guard	58	0	0	0	0	0	0	0	58	0
Countering Weapons of Mass Destruction Office	6,330	999	0	605	0	4,726	0	0	0	0

Table 48. Federal obligations for research performed at higher education institutions, by agency and field of R&D: FY 2024

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
Science and Technology Directorate	31,521	0	9,200	3,764	0	0	0	4,600	9,274	4,683
Department of the Interior	70,059	0	48,747	9,965	0	526	0	0	10,571	250
Bureau of Land Management	4,985	0	0	4,985	0	0	0	0	0	0
Bureau of Reclamation	8,800	0	0	436	0	0	0	0	8,365	0
Bureau of Safety and Environmental Enforcement	2,733	0	0	0	0	526	0	0	2,207	0
Geological Survey	48,747	0	48,747	0	0	0	0	0	0	0
National Park Service	4,795	0	0	4,545	0	0	0	0	0	250
Department of Justice	47,943	880	0	4,630	304	5,638	412	35,852	0	227
Office of Justice Programs	47,943	880	0	4,630	304	5,638	412	35,852	0	227
Department of Transportation	169,734	7,450	4,436	211	913	0	9,835	8,615	136,576	1,697
Federal Aviation Administration	45,519	1,843	4,436	211	913	0	3,116	8,615	26,385	0
Federal Highway Administration	73,363	0	0	0	0	0	0	0	73,363	0
Federal Railroad Administration	7,305	5,607	0	0	0	0	0	0	0	1,697
Federal Transit Administration	10,425	0	0	0	0	0	0	0	10,425	0
National Highway Traffic Safety Administration	29,223	0	0	0	0	0	6,719	0	22,504	0
Pipeline and Hazardous Materials Safety Administration	3,899	0	0	0	0	0	0	0	3,899	0
Other agencies										
Agency for International Development	100,644	0	0	0	0	0	0	0	0	100,644
Appalachian Regional Commission	325	0	0	0	0	0	0	325	0	0
Environmental Protection Agency	48,450	664	19,969	19,141	368	1,157	0	280	6,871	0
National Aeronautics and Space Administration	1,274,270	0	351,953	5,650	0	776,474	0	0	110,830	29,363
National Science Foundation	5,555,901	866,373	629,577	684,750	232,142	998,135	30,408	160,170	768,445	1,185,901
Nuclear Regulatory Commission	22,882	0	0	0	0	0	0	0	22,882	0
Social Security Administration	14,849	0	0	0	0	0	0	14,849	0	0

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 49. Federal obligations for basic research performed at higher education institutions, by detailed field of R&D: FY 2024

(Dollars in thousands)

Field	2024
All fields	22,047,213
Computer and information sciences	894,470
Geosciences, atmospheric sciences, and ocean sciences	1,327,081
Atmospheric science and meteorology	171,472
Geological and earth sciences	161,018
Ocean sciences and marine sciences	318,949
Other geosciences, atmospheric sciences, and ocean sciences	675,641
Life sciences	9,637,680
Agricultural sciences	101,847
Biological and biomedical sciences	5,745,264
Health sciences	2,574,049
Natural resources and conservation	1,858
Other life sciences	1,214,662
Mathematics and statistics	394,141
Physical sciences	3,182,257
Astronomy and astrophysics	462,183
Chemistry	875,603
Materials science	320,715
Physics	872,078
Other physical sciences	651,677
Psychology	1,788,182
Biological aspects	11,783
Social aspects	7,482
Other psychological sciences	1,768,917
Social sciences	977,294
Anthropology	16,926
Economics	41,699
Political science and government	4,600
Sociology, demography, and population studies	23,801
Other social sciences	890,267
Engineering	2,321,444
Aerospace, aeronautical, and astronautical engineering	26,432
Bioengineering and biomedical engineering	47,950
Chemical engineering	81,719
Civil engineering	58,431
Electrical, electronics, and communications engineering	128,551
Industrial and manufacturing engineering	27,969
Mechanical engineering	95,400
Metallurgical and materials engineering	202,172
Other engineering	1,652,821
Other fields	1,524,665
Business management and business administration	24,379
Communication and communications technologies	210
Education research	297,213
Humanities	2
Law	5,160
Social work	0
Visual and performing arts	0
All other fields	1,197,699

Note(s):

Because of rounding, detail may not add to total.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 50. Federal obligations for basic research performed at higher education institutions, by agency and field of R&D: FY 2024

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
All agencies	22,047,213	894,470	1,327,081	9,637,680	394,141	3,182,257	1,788,182	977,294	2,321,444	1,524,665
Departments										
Department of Agriculture	638,159	31,039	9,277	443,297	2,892	20,590	0	35,534	60,027	35,503
Agricultural Research Service	126,424	164	556	116,146	0	8,116	0	303	1,138	0
Animal and Plant Health Inspection Service	6,445	0	0	6,445	0	0	0	0	0	0
Forest Service	15,871	15	915	12,720	175	287	0	137	1,622	0
National Institute of Food and Agriculture	489,056	30,860	7,805	307,623	2,717	12,186	0	35,094	57,267	35,503
Natural Resources Conservation Service	363	0	0	363	0	0	0	0	0	0
Department of Commerce	60,703	59	0	454	0	13,994	0	0	46,196	0
National Institute of Standards and Technology	60,703	59	0	454	0	13,994	0	0	46,196	0
Department of Defense	1,003,752	99,040	89,215	74,910	25,216	88,938	7,612	14,685	519,677	84,459
Defense Advanced Research Projects Agency	125,010	31,066	0	42,700	4,448	19,390	1,190	0	25,008	1,208
Defense Health Agency	1,409	0	0	1,409	0	0	0	0	0	0
Department of the Air Force	367,247	1,233	0	345	14	1,988	1	164	362,070	1,432
Air Force	367,247	1,233	0	345	14	1,988	1	164	362,070	1,432
Department of the Navy	387,143	33,550	84,355	16,158	12,815	48,578	3,995	2,441	103,431	81,819
Other defense agencies	122,942	33,190	4,860	14,298	7,938	18,981	2,426	12,081	29,168	0
Department of Education	22,555	0	0	0	0	0	0	0	0	22,555
Department of Energy	1,202,030	41,197	49,069	188,090	22,816	895,186	0	0	173	5,498
Electricity Delivery and Energy Reliability	173	0	0	0	0	0	0	0	173	0
National Nuclear Security Administration	10,588	0	0	0	0	5,288	0	0	0	5,300
Office of Defense Nuclear Nonproliferation	10,588	0	0	0	0	5,288	0	0	0	5,300
Office of Science	1,191,268	41,197	49,069	188,090	22,816	889,898	0	0	0	198
Department of Health and Human Services	13,316,489	0	273,865	8,251,624	111,549	439,062	1,750,163	756,088	1,051,888	682,249
Centers for Disease Control and Prevention	45,617	0	0	41,790	0	0	0	0	3,827	0
Centers for Medicare and Medicaid Services	2,683	0	0	2,683	0	0	0	0	0	0
Health Resources and Services Administration	30,650	0	0	30,650	0	0	0	0	0	0
National Institutes of Health	13,237,539	0	273,865	8,176,501	111,549	439,062	1,750,163	756,088	1,048,061	682,249

Table 50. Federal obligations for basic research performed at higher education institutions, by agency and field of R&D: FY 2024

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
Department of Homeland Security	20,993	999	0	605	0	3,149	0	4,600	6,957	4,683
Countering Weapons of Mass Destruction Office	4,753	999	0	605	0	3,149	0	0	0	0
Science and Technology Directorate	16,240	0	0	0	0	0	0	4,600	6,957	4,683
Department of the Interior	957	0	0	918	0	39	0	0	0	0
Bureau of Land Management	918	0	0	918	0	0	0	0	0	0
Bureau of Safety and Environmental Enforcement	39	0	0	0	0	39	0	0	0	0
Department of Justice	8,761	0	0	969	0	0	0	7,792	0	0
Office of Justice Programs	8,761	0	0	969	0	0	0	7,792	0	0
Department of Transportation	22,504	0	0	0	0	0	0	0	22,504	0
National Highway Traffic Safety Administration	22,504	0	0	0	0	0	0	0	22,504	0
Other agencies										
Agency for International Development	1,355	0	0	0	0	0	0	0	0	1,355
National Aeronautics and Space Administration	1,042,737	0	284,080	5,650	0	743,499	0	0	1,396	8,112
National Science Foundation	4,706,218	722,136	621,575	671,162	231,668	977,799	30,408	158,594	612,626	680,250

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 51. Federal obligations for applied research performed at higher education institutions, by detailed field of R&D: FY 2024

(Dollars in thousands)

Field	2024
All fields	18,456,109
Computer and information sciences	542,239
Geosciences, atmospheric sciences, and ocean sciences	854,914
Atmospheric science and meteorology	146,604
Geological and earth sciences	54,364
Ocean sciences and marine sciences	196,711
Other geosciences, atmospheric sciences, and ocean sciences	457,235
Life sciences	9,211,771
Agricultural sciences	85,857
Biological and biomedical sciences	5,062,086
Health sciences	2,841,554
Natural resources and conservation	33,349
Other life sciences	1,188,924
Mathematics and statistics	120,655
Physical sciences	735,536
Astronomy and astrophysics	637
Chemistry	504,043
Materials science	30,606
Physics	148,603
Other physical sciences	51,646
Psychology	1,706,932
Biological aspects	2,961
Social aspects	3,528
Other psychological sciences	1,700,443
Social sciences	1,028,804
Anthropology	2,244
Economics	48,218
Political science and government	1,069
Sociology, demography, and population studies	46,555
Other social sciences	930,719
Engineering	2,682,163
Aerospace, aeronautical, and astronautical engineering	157,392
Bioengineering and biomedical engineering	146,093
Chemical engineering	245,826
Civil engineering	67,026
Electrical, electronics, and communications engineering	122,493
Industrial and manufacturing engineering	13,339
Mechanical engineering	45,750
Metallurgical and materials engineering	200,980
Other engineering	1,683,264
Other fields	1,573,094
Business management and business administration	53,283
Communication and communications technologies	22,888
Education research	515,678
Humanities	*
Law	0
Social work	47
Visual and performing arts	0
All other fields	981,198

* = amount greater than \$0 but less than \$500.

Note(s):

Because of rounding, detail may not add to total.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024-25.

Table 52. Federal obligations for applied research performed at higher education institutions, by agency and field of R&D: FY 2024

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
All agencies	18,456,109	542,239	854,914	9,211,771	120,655	735,536	1,706,932	1,028,804	2,682,163	1,573,094
Departments										
Department of Agriculture	650,045	15,675	12,186	421,299	3,666	16,726	5,633	54,754	40,978	79,129
Agricultural Marketing Service	4,134	0	0	4,134	0	0	0	0	0	0
Agricultural Research Service	101,140	131	445	92,917	0	6,493	0	243	910	0
Animal and Plant Health Inspection Service	1,980	0	0	1,980	0	0	0	0	0	0
Economic Research Service	160	0	0	0	0	0	0	160	0	0
Forest Service	18,652	0	1,805	10,007	319	262	0	5,821	438	0
National Agricultural Statistics Service	22	0	0	0	22	0	0	0	0	0
National Institute of Food and Agriculture	509,472	15,543	9,936	297,774	3,324	9,972	5,633	48,531	39,629	79,129
Natural Resources Conservation Service	14,487	0	0	14,487	0	0	0	0	0	0
Department of Commerce	375,409	30,875	235,436	17,466	774	11,155	0	10,339	67,473	1,891
Census Bureau	3,746	37	0	0	599	0	0	3,109	0	0
National Institute of Standards and Technology	100,438	29,090	2,062	6,123	0	364	0	0	62,799	0
National Oceanic and Atmospheric Administration	271,225	1,747	233,374	11,343	175	10,790	0	7,230	4,674	1,891
Department of Defense	1,266,424	195,353	157,150	169,187	6,981	132,100	9,523	65,127	509,124	21,878
Defense Advanced Research Projects Agency	293,908	137,564	14,457	46,623	0	21,473	2,961	0	61,869	8,961
Defense Health Agency	64,516	0	0	64,516	0	0	0	0	0	0
Department of the Air Force	246,071	514	0	160	64	71,820	0	0	173,178	334
Air Force	246,071	514	0	160	64	71,820	0	0	173,178	334
Department of the Army	214,048	24,770	144	23,493	6,389	939	5,596	64,886	87,831	0
Department of the Navy	401,581	29,907	142,549	23,492	527	24,650	966	241	177,510	1,738
Other defense agencies	46,299	2,598	0	10,904	0	13,218	0	0	8,735	10,844
Department of Education	169,394	0	0	0	0	0	0	0	0	169,394
Department of Energy	652,650	31,531	27,271	3,253	0	64,295	0	0	526,300	0
Advanced Research Projects Agency—Energy	87,130	274	0	3,253	0	11,417	0	0	72,186	0
Electricity Delivery and Energy Reliability	769	0	0	0	0	0	0	0	769	0
Energy Efficiency and Renewable Energy	205,227	0	0	0	0	0	0	0	205,227	0
Environmental Management	1,191	0	1,191	0	0	0	0	0	0	0

Table 52. Federal obligations for applied research performed at higher education institutions, by agency and field of R&D: FY 2024

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
Fossil Energy	274,528	0	26,080	0	0	43,650	0	0	204,798	0
National Nuclear Security Administration	9,303	0	0	0	0	9,228	0	0	75	0
Defense Programs	7,811	0	0	0	0	7,736	0	0	75	0
Office of Defense Nuclear Nonproliferation	1,492	0	0	0	0	1,492	0	0	0	0
Nuclear Energy	43,245	0	0	0	0	0	0	0	43,245	0
Office of Cybersecurity, Energy Security, and Emergency Response	31,256	31,256	0	0	0	0	0	0	0	0
Department of Health and Human Services	13,802,747	115,575	264,644	8,551,155	107,174	449,091	1,681,529	844,880	1,116,262	672,437
Administration for Children and Families	1,600	0	0	0	0	0	0	1,600	0	0
Administration for Community Living	76,469	0	0	0	0	0	0	76,469	0	0
Advanced Research Projects Agency for Health	555,339	115,575	0	286,288	0	27,232	0	0	109,301	16,943
Agency for Healthcare Research and Quality	115,908	0	0	115,908	0	0	0	0	0	0
Agency for Toxic Substances and Disease Registry	1,518	0	1,518	0	0	0	0	0	0	0
Biomedical Advanced Research and Development Authority	56,195	0	0	56,195	0	0	0	0	0	0
Centers for Disease Control and Prevention	143,571	0	0	103,264	0	15	0	40,292	0	0
Food and Drug Administration	90,790	0	0	90,790	0	0	0	0	0	0
Health Resources and Services Administration	42,855	0	0	42,855	0	0	0	0	0	0
National Institutes of Health	12,718,419	0	263,125	7,855,854	107,174	421,844	1,681,529	726,438	1,006,961	655,494
Office of the Secretary of Health and Human Services	82	0	0	0	0	0	0	82	0	0
Office of the Assistant Secretary for Planning and Evaluation	82	0	0	0	0	0	0	82	0	0
Department of Homeland Security	16,916	0	9,200	3,764	0	1,577	0	0	2,375	0
Coast Guard	58	0	0	0	0	0	0	0	58	0
Countering Weapons of Mass Destruction Office	1,577	0	0	0	0	1,577	0	0	0	0
Science and Technology Directorate	15,281	0	9,200	3,764	0	0	0	0	2,317	0
Department of the Interior	69,101	0	48,747	9,046	0	487	0	0	10,571	250

Table 52. Federal obligations for applied research performed at higher education institutions, by agency and field of R&D: FY 2024

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
Bureau of Land Management	4,066	0	0	4,066	0	0	0	0	0	0
Bureau of Reclamation	8,800	0	0	436	0	0	0	0	8,365	0
Bureau of Safety and Environmental Enforcement	2,694	0	0	0	0	487	0	0	2,207	0
Geological Survey	48,747	0	48,747	0	0	0	0	0	0	0
National Park Service	4,795	0	0	4,545	0	0	0	0	0	250
Department of Justice	39,181	880	0	3,661	304	5,638	412	28,060	0	227
Office of Justice Programs	39,181	880	0	3,661	304	5,638	412	28,060	0	227
Department of Transportation	147,231	7,450	4,436	211	913	0	9,835	8,615	114,072	1,697
Federal Aviation Administration	45,519	1,843	4,436	211	913	0	3,116	8,615	26,385	0
Federal Highway Administration	73,363	0	0	0	0	0	0	0	73,363	0
Federal Railroad Administration	7,305	5,607	0	0	0	0	0	0	0	1,697
Federal Transit Administration	10,425	0	0	0	0	0	0	0	10,425	0
National Highway Traffic Safety Administration	6,719	0	0	0	0	0	6,719	0	0	0
Pipeline and Hazardous Materials Safety Administration	3,899	0	0	0	0	0	0	0	3,899	0
Other agencies										
Agency for International Development	99,289	0	0	0	0	0	0	0	0	99,289
Appalachian Regional Commission	325	0	0	0	0	0	0	325	0	0
Environmental Protection Agency	48,450	664	19,969	19,141	368	1,157	0	280	6,871	0
National Aeronautics and Space Administration	231,533	0	67,873	0	0	32,975	0	0	109,434	21,251
National Science Foundation	849,683	144,237	8,003	13,588	475	20,336	0	1,575	155,819	505,651
Nuclear Regulatory Commission	22,882	0	0	0	0	0	0	0	22,882	0
Social Security Administration	14,849	0	0	0	0	0	0	14,849	0	0

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 53. Federal obligations for experimental development performed at higher education institutions, by detailed field of R&D: FY 2024

(Dollars in thousands)

Field	2024
All fields	3,903,460
Computer and information sciences	286,995
Geosciences, atmospheric sciences, and ocean sciences	148,721
Atmospheric science and meteorology	64,700
Geological and earth sciences	4,065
Ocean sciences and marine sciences	26,595
Other geosciences, atmospheric sciences, and ocean sciences	53,360
Life sciences	952,845
Agricultural sciences	26,874
Biological and biomedical sciences	866,898
Health sciences	42,862
Natural resources and conservation	4,490
Other life sciences	11,722
Mathematics and statistics	4,365
Physical sciences	789,074
Astronomy and astrophysics	52,816
Chemistry	20,896
Materials science	10,370
Physics	178,819
Other physical sciences	526,173
Psychology	6,888
Biological aspects	0
Social aspects	0
Other psychological sciences	6,888
Social sciences	9,290
Anthropology	0
Economics	71
Political science and government	144
Sociology, demography, and population studies	4,671
Other social sciences	4,405
Engineering	1,272,486
Aerospace, aeronautical, and astronautical engineering	414,917
Bioengineering and biomedical engineering	8,563
Chemical engineering	34,078
Civil engineering	18,114
Electrical, electronics, and communications engineering	105,813
Industrial and manufacturing engineering	68,382
Mechanical engineering	18,123
Metallurgical and materials engineering	35,413
Other engineering	569,082
Other fields	432,797
Business management and business administration	12,069
Communication and communications technologies	10,438
Education research	145,102
Humanities	1,764
Law	4,600
Social work	0
Visual and performing arts	0
All other fields	258,824

Note(s):

Because of rounding, detail may not add to total.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 54. Federal obligations for experimental development performed at higher education institutions, by agency and field of R&D: FY 2024

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
All agencies	3,903,460	286,995	148,721	952,845	4,365	789,074	6,888	9,290	1,272,486	432,797
Departments										
Department of Agriculture	47,650	0	0	22,347	18	0	0	0	0	25,285
Agricultural Marketing Service	4,134	0	0	4,134	0	0	0	0	0	0
Agricultural Research Service	25,285	0	0	0	0	0	0	0	0	25,285
Animal and Plant Health Inspection Service	18,112	0	0	18,112	0	0	0	0	0	0
National Agricultural Statistics Service	18	0	0	0	18	0	0	0	0	0
Natural Resources Conservation Service	100	0	0	100	0	0	0	0	0	0
Department of Commerce	123,123	283	86,270	1,574	283	1,630	0	3,766	28,395	922
National Institute of Standards and Technology	14,765	0	0	0	0	0	0	0	14,765	0
National Oceanic and Atmospheric Administration	95,366	283	86,270	1,574	283	1,630	0	3,766	638	922
National Telecommunications and Information Administration	12,992	0	0	0	0	0	0	0	12,992	0
Department of Defense	2,765,709	282,911	23,513	907,826	4,063	294,974	6,888	922	935,294	309,318
Defense Advanced Research Projects Agency	233,945	174,157	0	0	0	15	0	0	26,736	33,038
Defense Health Agency	845,516	0	0	845,516	0	0	0	0	0	0
Department of the Air Force	423,636	5,648	0	0	0	52,180	0	0	268,642	97,168
Air Force	342,085	992	0	0	0	49,074	0	0	210,276	81,743
Space Force	81,552	4,656	0	0	0	3,106	0	0	58,365	15,425
Department of the Army	148,634	25,010	1,818	36,207	4,063	14,684	6,888	922	15,320	43,723
Department of the Navy	530,547	9,022	9,068	7,736	0	201,736	0	0	207,748	95,239
Other defense agencies	583,430	69,075	12,628	18,368	0	26,360	0	0	416,849	40,151
Department of Education	53,447	0	0	0	0	0	0	0	0	53,447
Department of Energy	282,577	274	2,419	3,253	0	11,840	0	0	264,791	0
Advanced Research Projects Agency –Energy	87,130	274	0	3,253	0	11,417	0	0	72,186	0
Electricity Delivery and Energy Reliability	921	0	0	0	0	0	0	0	921	0
Energy Efficiency and Renewable Energy	178,028	0	0	0	0	0	0	0	178,028	0
Environmental Management	2,419	0	2,419	0	0	0	0	0	0	0
National Nuclear Security Administration	423	0	0	0	0	423	0	0	0	0

Table 54. Federal obligations for experimental development performed at higher education institutions, by agency and field of R&D: FY 2024

(Dollars in thousands)

Agency	Total	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Other fields
Office of Defense Nuclear Nonproliferation	423	0	0	0	0	423	0	0	0	0
Nuclear Energy	13,656	0	0	0	0	0	0	0	13,656	0
Department of Health and Human Services	11,513	0	0	11,513	0	0	0	0	0	0
Centers for Disease Control and Prevention	11,513	0	0	11,513	0	0	0	0	0	0
Department of Homeland Security	39,434	1,837	9,496	5,914	0	0	0	4,602	12,375	5,209
Countering Weapons of Mass Destruction Office	1,837	1,837	0	0	0	0	0	0	0	0
Science and Technology Directorate	37,597	0	9,496	5,914	0	0	0	4,602	12,375	5,209
Department of the Interior	5,455	0	3,277	82	0	0	0	0	2,096	0
Bureau of Land Management	82	0	0	82	0	0	0	0	0	0
Bureau of Reclamation	2,096	0	0	0	0	0	0	0	2,096	0
Geological Survey	3,277	0	3,277	0	0	0	0	0	0	0
Department of Justice	1,471	0	0	0	0	347	0	0	0	1,124
Federal Bureau of Investigation	1,124	0	0	0	0	0	0	0	0	1,124
Office of Justice Programs	347	0	0	0	0	347	0	0	0	0
Department of Transportation	24,282	1,689	0	0	0	0	0	0	3,663	18,930
Federal Aviation Administration	17,477	0	0	0	0	0	0	0	0	17,477
Federal Railroad Administration	3,142	1,689	0	0	0	0	0	0	0	1,453
Federal Transit Administration	3,663	0	0	0	0	0	0	0	3,663	0
Other agencies										
Agency for International Development	18,135	0	0	0	0	0	0	0	0	18,135
National Aeronautics and Space Administration	530,664	0	23,746	336	0	480,284	0	0	25,871	427

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 55. Federal obligations for research and experimental development to non-U.S. performers, by region, country, or economy and agency: FY 2024

(Dollars in thousands)

Region, country, or economy	Total	DHS	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
All areas and organizations	1,098,440	6,758	636,746	2,880	325,854	20,877	12,052	9,579	83,694
Africa	114,152	587	12,656	84	99,378	38	0	1,209	200
Botswana	2,604	0	35	0	2,569	0	0	0	0
Cameroon	1,874	0	0	0	1,874	0	0	0	0
Congo, Democratic Republic of the	1,030	0	0	0	1,030	0	0	0	0
Egypt	534	0	0	0	534	0	0	0	0
Ethiopia	383	0	0	0	383	0	0	0	0
Gambia, The	692	400	181	0	111	0	0	0	0
Ghana	4,137	0	36	84	3,817	0	0	0	200
Kenya	22,273	0	10,980	0	10,947	0	0	345	0
Malawi	1,477	0	0	0	1,477	0	0	0	0
Mali	2,403	0	0	0	2,403	0	0	0	0
Morocco	174	0	174	0	0	0	0	0	0
Mozambique	848	0	0	0	848	0	0	0	0
Nigeria	8,186	0	473	0	7,713	0	0	0	0
Rwanda	675	0	0	0	675	0	0	0	0
Sao Tome and Principe	38	0	0	0	0	38	0	0	0
South Africa	45,515	0	739	0	44,194	0	0	582	0
Tanzania	3,155	0	0	0	3,155	0	0	0	0
Tunisia	144	0	0	0	144	0	0	0	0
Uganda	14,395	0	37	0	14,076	0	0	282	0
Zambia	1,887	0	0	0	1,887	0	0	0	0
Zimbabwe	1,538	0	0	0	1,538	0	0	0	0
African countries, other	187	187	0	0	0	0	0	0	0
Asia	404,282	0	377,976	0	21,779	495	310	2,987	734
Armenia	44	0	44	0	0	0	0	0	0
Bahrain	5	0	5	0	0	0	0	0	0
Bangladesh	4,635	0	0	0	4,596	0	0	40	0
Cambodia	1,133	0	0	0	1,133	0	0	0	0
China	1,899	0	0	0	1,875	0	0	0	24
Cyprus	120	0	0	0	0	0	120	0	0
Georgia	1,076	0	780	0	296	0	0	0	0
India	1,313	0	266	0	1,047	0	0	0	0
Indonesia	311	0	0	0	311	0	0	0	0
Israel	364,926	0	359,703	0	2,288	14	190	2,731	0
Japan	1,373	0	939	0	0	418	0	0	16
Jordan	289	0	0	0	289	0	0	0	0
Korea, South	1,602	0	1,354	0	0	60	0	188	0

Table 55. Federal obligations for research and experimental development to non-U.S. performers, by region, country, or economy and agency: FY 2024

(Dollars in thousands)

Region, country, or economy	Total	DHS	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
Lebanon	1,673	0	0	0	989	0	0	0	684
Malaysia	2,111	0	1,607	0	504	0	0	0	0
Mongolia	616	0	327	0	289	0	0	0	0
Oman	150	0	150	0	0	0	0	0	0
Pakistan	1,859	0	0	0	1,859	0	0	0	0
Philippines	110	0	105	0	0	0	0	0	5
Singapore	2,426	0	2,421	0	0	0	0	0	4
Taiwan	2,098	0	223	0	1,873	2	0	0	0
Thailand	13,819	0	9,479	0	4,340	0	0	0	0
Turkey	420	0	419	0	0	2	0	0	0
United Arab Emirates	1	0	1	0	0	0	0	0	0
Vietnam	273	0	152	0	92	0	0	29	0
Europe	230,522	3,171	78,350	2,616	112,735	15,047	1,991	1,630	14,982
Austria	4,568	0	2,102	80	674	0	0	0	1,712
Belgium	4,830	0	2,577	0	2,199	46	0	0	9
Croatia	286	0	286	0	0	0	0	0	0
Czechia	331	0	198	0	0	133	0	0	1
Denmark	1,168	5	1,142	0	0	20	0	0	0
Estonia	1,180	0	1,120	0	0	60	0	0	0
Finland	7,348	0	3,591	0	3,757	0	0	0	0
France	10,657	0	843	1,226	7,399	418	190	18	562
Germany	38,892	0	3,421	25	16,307	10,763	1,149	256	6,971
Greece	501	0	391	0	0	0	0	0	111
Hungary	91	0	91	0	0	0	0	0	0
Iceland	203	199	3	0	0	0	0	0	0
Ireland	8,306	0	7,520	0	785	0	0	0	2
Italy	6,596	0	4,607	0	564	1,117	0	306	3
Lithuania	1	0	0	0	0	0	0	0	1
Netherlands	8,306	198	2,089	354	5,583	13	0	55	16
Norway	3,462	0	1,203	620	74	1,565	0	0	0
Poland	880	0	864	0	0	0	0	16	0
Portugal	19	0	15	0	0	0	0	0	4
Slovakia	199	199	0	0	0	0	0	0	0
Slovenia	89	0	80	0	0	9	0	0	0
Spain	1,871	0	882	0	103	0	0	884	2
Sweden	4,994	0	1,824	35	2,925	210	0	0	0
Switzerland	55,951	0	4,988	0	45,166	507	0	0	5,290
Ukraine	142	0	53	0	89	0	0	0	0

Table 55. Federal obligations for research and experimental development to non-U.S. performers, by region, country, or economy and agency: FY 2024

(Dollars in thousands)

Region, country, or economy	Total	DHS	DOD	DOE	HHS	NASA	NSF	USDA	Other ^a
United Kingdom	69,623	2,570	38,434	276	27,110	186	652	95	300
European countries, other	26	0	26	0	0	0	0	0	0
North America	118,413	2,799	47,630	0	51,206	3,464	7,388	1,487	4,439
Bahamas, The	12,266	0	12,266	0	0	0	0	0	0
Bermuda	4,711	0	9	0	0	0	4,701	0	0
Canada	88,793	261	34,936	0	42,051	3,455	2,687	965	4,439
Costa Rica	4,964	0	49	0	4,805	0	0	111	0
Dominican Republic	21	0	21	0	0	0	0	0	0
Greenland	99	0	89	0	0	10	0	0	0
Guatemala	73	0	0	0	73	0	0	0	0
Haiti	2,425	0	0	0	2,425	0	0	0	0
Jamaica	123	0	0	0	123	0	0	0	0
Mexico	641	0	210	0	378	0	0	53	0
Panama	191	0	50	0	0	0	0	141	0
Trinidad and Tobago	1,569	0	0	0	1,351	0	0	218	0
North American countries, other	2,538	2,538	0	0	0	0	0	0	0
Oceania	76,338	200	46,756	180	26,322	1,292	0	1,285	302
Australia	71,983	200	44,601	180	25,087	550	0	1,263	102
New Zealand	4,332	0	2,155	0	1,235	742	0	0	200
Palau	22	0	0	0	0	0	0	22	0
South America	17,633	0	1,829	0	14,434	541	0	826	4
Argentina	2,014	0	20	0	1,253	0	0	741	0
Bolivia	17	0	17	0	0	0	0	0	0
Brazil	4,449	0	586	0	3,485	340	0	35	3
Chile	1,690	0	920	0	750	0	0	20	0
Colombia	654	0	40	0	613	0	0	0	1
Ecuador	135	0	0	0	135	0	0	0	0
Peru	8,428	0	0	0	8,197	201	0	30	0
Suriname	150	0	150	0	0	0	0	0	0
Uruguay	97	0	97	0	0	0	0	0	0
International organizations	137,100	0	71,549	0	0	0	2,362	155	63,034

DHS = Department of Homeland Security; DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = Department of Agriculture.

^a Other includes data for the Departments of Commerce, the Interior, Transportation, and the Treasury; the Agency for International Development; the Environmental Protection Agency; and the Nuclear Regulatory Commission.

Note(s):

Because of rounding, detail may not add to total. Only those regions, countries, or economies that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 56. Federal obligations for R&D plant to non-U.S. performers, by region, country, or economy and agency: FY 2024

(Dollars in thousands)

Region, country, or economy	Total	DOT	NASA	NSF
All areas	2,026	50	1,800	176
Europe	1,850	50	1,800	0
Czechia	50	50	0	0
Spain	1,800	0	1,800	0
North America	176	0	0	176
Bermuda	176	0	0	176

DOT = Department of Transportation; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions and those regions, countries, or economies that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 57. Federal obligations for research and experimental development and for R&D plant, by state or location: FY 2024

(Dollars in thousands)

State or location	Total	R&D	R&D plant
All locations	198,354,473	193,144,203	5,210,270
Alabama	7,831,949	7,779,925	52,025
Alaska	394,466	372,625	21,841
Arizona	2,401,431	2,347,986	53,445
Arkansas	330,128	325,495	4,633
California	25,316,532	24,603,898	712,634
Colorado	9,341,710	9,213,288	128,422
Connecticut	2,130,807	2,127,020	3,787
Delaware	253,239	250,548	2,692
District of Columbia	10,225,060	10,176,965	48,095
Florida	4,694,368	4,633,608	60,759
Georgia	1,998,177	1,987,809	10,368
Hawaii	502,712	487,029	15,683
Idaho	1,493,782	918,233	575,550
Illinois	4,493,988	4,014,120	479,868
Indiana	2,814,769	2,814,407	362
Iowa	842,437	831,114	11,323
Kansas	516,860	516,066	795
Kentucky	473,675	466,067	7,607
Louisiana	560,379	495,430	64,949
Maine	298,176	297,702	474
Maryland	22,090,728	21,456,402	634,325
Massachusetts	9,548,693	9,529,390	19,303
Michigan	2,613,579	2,599,384	14,195
Minnesota	1,365,311	1,364,192	1,119
Mississippi	531,434	479,209	52,225
Missouri	2,378,410	2,375,775	2,635
Montana	264,556	264,521	35
Nebraska	356,700	331,684	25,016
Nevada	748,112	517,931	230,180
New Hampshire	534,232	530,035	4,197
New Jersey	1,989,784	1,942,200	47,584
New Mexico	3,823,146	3,675,344	147,802
New York	6,585,657	6,380,937	204,720
North Carolina	3,291,262	3,283,949	7,313
North Dakota	212,557	210,104	2,453
Ohio	10,418,135	10,320,672	97,462
Oklahoma	628,404	613,431	14,973
Oregon	799,540	782,421	17,120
Pennsylvania	5,183,217	5,152,250	30,967
Rhode Island	1,135,037	929,847	205,190
South Carolina	2,581,983	2,558,608	23,374
South Dakota	133,868	129,804	4,064
Tennessee	4,513,541	3,894,129	619,412
Texas	7,804,319	7,673,566	130,754
Utah	5,204,089	5,202,729	1,361
Vermont	189,892	189,892	0
Virginia	15,282,672	15,116,135	166,538
Washington	3,317,000	3,262,659	54,341
West Virginia	400,000	298,466	101,534
Wisconsin	1,174,307	1,140,823	33,484
Wyoming	163,330	111,223	52,107
Outlying areas	575,056	565,881	9,175

Table 57. Federal obligations for research and experimental development and for R&D plant, by state or location: FY 2024

(Dollars in thousands)

State or location	Total	R&D	R&D plant
American Samoa	2,392	2,392	0
Guam	9,367	9,367	0
Northern Mariana Islands	2,085	2,085	0
Puerto Rico	99,460	90,285	9,175
U.S. Virgin Islands	4,572	4,572	0
Other areas ^a	457,180	457,180	0
Offices abroad ^b	108,867	108,867	0
Undistributed ^c	5,492,406	5,492,406	0

^a Other areas includes Baker Island, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Navassa Island, Palmyra Atoll, and Wake Island.

^b Offices abroad includes R&D performed or administered in foreign countries by the U.S. government and federal obligations for R&D plant located in foreign countries.

^c Undistributed includes Department of Defense (DOD) obligations for which the location of performance is not reported.

Note(s):

Because of rounding, detail may not add to total. Geographic distribution of DOD development funding to businesses reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 58. Federal obligations for research and experimental development, by state or location and performer: FY 2024

(Dollars in thousands)

State or location	Total	Extramural					
		Intramural		United States and U.S. territories			
		Federal agencies ^a	FFRDCs	Businesses	Higher education ^b	Nonprofit organizations	State and local governments
All locations	193,144,203	51,071,672	16,350,372	69,916,646	44,406,783	10,603,536	795,194
Alabama	7,779,925	3,372,619	2,106	3,699,601	657,890	30,424	17,286
Alaska	372,625	92,763	0	136,885	119,401	10,327	13,249
Arizona	2,347,986	140,696	93,790	1,410,859	556,654	126,772	19,215
Arkansas	325,495	47,566	0	84,070	173,855	15,235	4,769
California	24,603,898	3,354,904	5,077,414	9,530,473	5,544,017	1,023,443	73,646
Colorado	9,213,288	394,936	1,053,406	6,573,242	1,064,670	98,726	28,307
Connecticut	2,127,020	53,063	0	1,176,749	872,609	13,072	11,528
Delaware	250,548	6,873	0	62,668	161,519	17,245	2,243
District of Columbia	10,176,965	7,120,818	47,455	1,690,200	272,929	1,031,252	14,310
Florida	4,633,608	886,720	0	2,291,647	1,249,545	193,360	12,337
Georgia	1,987,809	286,227	0	362,046	1,226,990	23,049	89,496
Hawaii	487,029	150,007	2,164	123,988	186,455	23,014	1,401
Idaho	918,233	93,492	646,696	96,804	77,989	1,050	2,202
Illinois	4,014,120	421,284	1,301,084	340,940	1,738,124	200,760	11,928
Indiana	2,814,407	1,064,372	0	995,159	673,376	72,355	9,143
Iowa	831,114	117,474	33,679	281,255	383,387	6,433	8,886
Kansas	516,066	164,130	0	44,122	287,253	6,645	13,916
Kentucky	466,067	74,610	698	56,067	322,465	7,903	4,325
Louisiana	495,430	53,823	400	72,765	338,900	21,781	7,762
Maine	297,702	9,206	0	77,957	88,038	120,908	1,592
Maryland	21,456,402	13,714,652	585,923	3,314,139	3,234,400	584,319	22,971
Massachusetts	9,529,390	652,673	1,011,783	3,560,160	2,067,549	2,228,767	8,457
Michigan	2,599,384	207,318	0	828,921	1,463,501	84,618	15,025
Minnesota	1,364,192	153,666	0	255,702	584,145	354,429	16,250
Mississippi	479,209	221,069	0	63,836	190,119	934	3,251
Missouri	2,375,775	95,994	0	1,202,526	1,022,728	46,756	7,772
Montana	264,521	58,053	0	20,569	176,752	5,119	4,028
Nebraska	331,684	44,765	0	10,277	242,186	30,199	4,256
Nevada	517,931	36,003	0	380,498	91,884	3,360	6,186
New Hampshire	530,035	14,063	0	286,423	204,951	20,722	3,875
New Jersey	1,942,200	327,722	119,101	865,834	555,821	64,720	9,004
New Mexico	3,675,344	656,901	2,129,829	592,299	271,382	18,211	6,722
New York	6,380,937	129,137	589,702	1,277,730	3,734,284	590,689	59,394
North Carolina	3,283,949	407,225	0	508,308	1,841,142	496,718	30,557
North Dakota	210,104	51,265	0	29,204	119,233	4,646	5,755

Table 58. Federal obligations for research and experimental development, by state or location and performer: FY 2024

(Dollars in thousands)

State or location	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Ohio	10,320,672	5,339,098	11,284	3,121,840	1,166,115	666,746	15,589
Oklahoma	613,431	209,916	0	103,582	231,381	59,484	9,068
Oregon	782,421	126,617	0	109,710	508,392	30,337	7,365
Pennsylvania	5,152,250	469,250	47,815	1,595,324	2,560,532	460,982	18,346
Rhode Island	929,847	340,081	0	229,679	273,710	84,852	1,525
South Carolina	2,558,608	200,141	66,482	1,605,838	377,670	298,966	9,512
South Dakota	129,804	11,180	0	25,954	47,772	15,229	29,670
Tennessee	3,894,129	843,125	1,270,415	642,433	1,005,856	118,113	14,186
Texas	7,673,566	205,659	24,433	4,350,580	2,828,039	216,904	47,952
Utah	5,202,729	316,034	0	4,290,688	577,117	12,753	6,137
Vermont	189,892	15,740	0	59,999	110,384	1,514	2,255
Virginia	15,116,135	2,148,764	1,488,405	10,371,502	793,048	299,880	14,535
Washington	3,262,659	266,680	717,123	584,291	993,072	674,085	27,408
West Virginia	298,466	53,617	0	125,300	94,200	17,581	7,768
Wisconsin	1,140,823	128,839	22,657	81,733	836,522	53,074	17,998
Wyoming	111,223	12,676	0	5,929	88,524	227	3,867
Outlying areas	565,881	359,647	0	97,916	96,317	1,034	10,967
American Samoa	2,392	0	0	0	2,392	0	0
Guam	9,367	0	0	247	9,037	0	83
Northern Mariana Islands	2,085	0	0	69	2,016	0	0
Puerto Rico	90,285	6,310	0	2,566	74,491	1,034	5,884
U.S. Virgin Islands	4,572	0	0	1	4,571	0	0
Other areas ^c	457,180	353,337	0	95,034	3,809	0	5,000
Offices abroad ^d	108,867	35,369	4,247	51,401	4,037	13,813	0
Undistributed ^e	5,492,406	5,313,154	2,281	159,023	17,947	0	0

FFRDC = federally funded research and development center.

^a Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, as well as actual federal performance.

^b Higher education includes both public and private institutions as well as University Affiliated Research Centers.

^c Other areas includes Baker Island, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Navassa Island, Palmyra Atoll, and Wake Island.

^d Offices abroad includes R&D performed or administered in foreign countries by the U.S. government and federal obligations for R&D plant located in foreign countries.

^e Undistributed includes Department of Defense (DOD) obligations for which the location of performance is not reported.

Note(s):

Because of rounding, detail may not add to total. Geographic distribution of DOD development funding to businesses reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 59. Federal obligations for R&D plant, by state or location and performer: FY 2024

(Dollars in thousands)

State or location	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
All locations	5,210,270	1,378,150	2,364,439	969,903	376,059	117,104	4,614
Alabama	52,025	44,971	0	5,943	1,111	0	0
Alaska	21,841	20,481	0	0	1,359	0	0
Arizona	53,445	377	0	21,714	24,246	7,108	0
Arkansas	4,633	2,273	0	0	2,360	0	0
California	712,634	60,117	605,073	7,024	24,206	16,213	0
Colorado	128,422	36,261	57,630	7,917	20,352	6,263	0
Connecticut	3,787	0	0	501	3,286	0	0
Delaware	2,692	0	0	1,020	1,672	0	0
District of Columbia	48,095	46,818	0	218	11	1,048	0
Florida	60,759	31,232	0	18,642	10,885	0	0
Georgia	10,368	790	0	1,401	8,176	0	0
Hawaii	15,683	10,401	0	4,327	754	200	0
Idaho	575,550	1,919	325,068	246,284	743	0	1,536
Illinois	479,868	9,104	454,270	8,439	8,056	0	0
Indiana	362	0	0	0	362	0	0
Iowa	11,323	0	10,475	0	848	0	0
Kansas	795	0	0	93	702	0	0
Kentucky	7,607	0	0	0	7,607	0	0
Louisiana	64,949	55,265	0	2,511	7,173	0	0
Maine	474	306	0	0	165	2	0
Maryland	634,325	575,684	0	57,953	688	0	0
Massachusetts	19,303	42	0	2,463	16,606	193	0
Michigan	14,195	0	0	667	13,528	0	0
Minnesota	1,119	0	0	241	548	330	0
Mississippi	52,225	44,225	0	0	8,000	0	0
Missouri	2,635	36	0	1,589	1,010	0	0
Montana	35	35	0	0	0	0	0
Nebraska	25,016	25,000	0	0	16	0	0
Nevada	230,180	78	0	228,064	1,966	73	0
New Hampshire	4,197	4,146	0	39	12	0	0
New Jersey	47,584	30	26,000	19,616	1,938	0	0
New Mexico	147,802	28,946	117,778	7	1,070	0	0
New York	204,720	6,934	133,220	60	56,427	8,078	0
North Carolina	7,313	208	0	4,851	2,254	0	0
North Dakota	2,453	2,200	0	0	253	0	0

Table 59. Federal obligations for R&D plant, by state or location and performer: FY 2024

(Dollars in thousands)

State or location	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Ohio	97,462	2,042	0	5,571	12,254	77,596	0
Oklahoma	14,973	1,358	0	12,901	714	0	0
Oregon	17,120	14,160	0	263	2,697	0	0
Pennsylvania	30,967	472	0	9,387	21,109	0	0
Rhode Island	205,190	40,781	0	164,410	0	0	0
South Carolina	23,374	16,866	2,455	1,069	2,984	0	0
South Dakota	4,064	0	0	*	985	0	3,079
Tennessee	619,412	48,184	567,704	3,510	15	0	0
Texas	130,754	2,881	0	43,129	84,744	0	0
Utah	1,361	0	0	0	1,361	0	0
Vermont	0	0	0	0	0	0	0
Virginia	166,538	93,522	38,242	34,058	715	0	0
Washington	54,341	22,834	26,523	4,020	964	0	0
West Virginia	101,534	101,196	0	0	339	0	0
Wisconsin	33,484	25,758	0	0	7,726	0	0
Wyoming	52,107	0	0	50,000	2,107	0	0
Outlying areas	9,175	219	0	0	8,957	0	0
American Samoa	0	0	0	0	0	0	0
Guam	0	0	0	0	0	0	0
Northern Mariana Islands	0	0	0	0	0	0	0
Puerto Rico	9,175	219	0	0	8,957	0	0
U.S. Virgin Islands	0	0	0	0	0	0	0
Other areas ^c	0	0	0	0	0	0	0
Offices abroad ^d	0	0	0	0	0	0	0
Undistributed ^e	0	0	0	0	0	0	0

* = amount greater than \$0 but less than \$500.

FFRDC = federally funded research and development center.

^a Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, and actual federal performance.

^b Higher education includes both public and private institutions as well as University Affiliated Research Centers.

^c Other areas includes Baker Island, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Navassa Island, Palmyra Atoll, and Wake Island.

^d Offices abroad includes R&D performed or administered in foreign countries by the U.S. government and federal obligations for R&D plant located in foreign countries.

^e Undistributed includes Department of Defense (DOD) obligations for which the location of performance is not reported.

Note(s):

Because of rounding, detail may not add to total.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 60. Federal obligations for research and experimental development, by state or location and agency: FY 2024

(Dollars in thousands)

State or location	Total	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA	Other ^a
All locations	193,144,203	529,173	2,664,460	97,219,402	16,890,553	493,408	1,186,435	535,279	48,467,633	10,883,673	6,983,173	3,483,730	3,807,283
Alabama	7,779,925	6,369	60,951	6,561,678	46,588	949	24,207	117	392,475	522,146	75,897	61,815	26,732
Alaska	372,625	9,450	10,194	210,901	14,066	22,143	3,777	519	16,053	20,713	43,628	15,322	5,860
Arizona	2,347,986	9,192	3,360	1,456,766	64,052	15,799	2,994	0	393,883	103,817	241,280	32,537	24,307
Arkansas	325,495	1	15,060	83,902	5,784	3,629	4,613	0	111,271	544	28,335	59,209	13,148
California	24,603,898	29,697	49,380	11,457,335	3,096,270	38,337	72,242	5,565	5,448,357	3,051,356	797,526	190,125	367,707
Colorado	9,213,288	2,648	253,663	6,376,900	1,061,188	40,303	16,826	7,531	596,060	409,482	320,536	73,488	54,662
Connecticut	2,127,020	4,238	2,747	1,138,335	71,847	1,436	8,005	1,542	763,864	21,134	52,818	11,484	49,570
Delaware	250,548	0	19,040	53,992	12,851	1,283	1,865	187	87,154	7,435	54,876	10,050	1,816
District of Columbia	10,176,965	36,653	396,415	3,837,236	1,374,600	25,489	294,389	68,842	337,887	2,009,260	117,308	458,164	1,220,722
Florida	4,633,608	5,848	60,259	2,965,051	75,968	28,711	32,913	11,222	867,452	184,315	229,040	91,778	81,053
Georgia	1,987,809	1,174	2,268	646,380	133,925	2,340	23,615	8,742	807,181	21,687	152,374	127,253	60,870
Hawaii	487,029	0	10,092	276,640	15,604	3,632	1,054	0	74,175	28,672	49,012	26,768	1,381
Idaho	918,233	201	2,875	149,856	647,599	5,124	898	242	22,537	2,059	36,478	36,535	13,829
Illinois	4,014,120	30,034	2,853	624,876	1,456,159	3,304	22,895	42,628	1,316,052	33,357	339,134	65,659	77,168
Indiana	2,814,407	2,212	3,576	2,091,874	67,551	5,436	5,814	154	409,447	17,627	148,737	31,128	30,851
Iowa	831,114	905	584	289,388	64,135	764	19,065	0	236,638	15,205	59,472	104,474	40,484
Kansas	516,066	1	5,232	73,779	15,610	3,689	13,284	155	139,942	14,332	49,815	180,002	20,225
Kentucky	466,067	0	541	38,134	85,868	1,990	4,638	0	230,594	7,486	45,682	35,112	16,023
Louisiana	495,430	6	2,435	105,166	10,371	643	6,363	5,426	212,692	6,246	78,436	58,231	9,414
Maine	297,702	*	5,869	82,118	16,219	1,017	114	3,186	123,854	7,116	27,970	29,857	383
Maryland	21,456,402	45,371	1,329,807	5,761,291	154,535	15,945	43,125	14,991	11,948,503	1,474,287	365,847	223,584	79,118
Massachusetts	9,529,390	31,195	36,677	4,360,371	223,556	9,397	160,268	14,528	3,730,765	197,128	469,414	40,712	255,377
Michigan	2,599,384	2,784	24,545	943,426	265,315	5,175	17,803	3,930	991,832	38,592	203,228	29,023	73,732
Minnesota	1,364,192	3	4,161	329,592	58,981	8,552	7,854	12,525	761,765	9,637	80,436	58,626	32,060
Mississippi	479,209	0	18,125	152,860	10,224	1,981	14,391	0	67,502	41,281	36,570	130,761	5,513
Missouri	2,375,775	4,894	8,194	1,061,605	103,738	13,294	13,145	156	891,148	120,068	74,306	43,620	41,608
Montana	264,521	1,032	187	84,375	8,628	10,363	1,939	0	81,959	8,042	33,702	34,294	0
Nebraska	331,684	12,707	168	40,364	8,206	1,242	5,750	3,726	133,582	1,369	47,260	72,061	5,249
Nevada	517,931	785	6,002	240,444	148,654	8,473	2,731	117	32,711	29,084	33,819	7,694	7,418
New Hampshire	530,035	202	12,092	266,883	26,220	1,811	3,353	1,830	140,430	30,770	31,141	13,387	1,917
New Jersey	1,942,200	974	31,087	1,060,589	194,660	2,482	25,050	3,178	433,812	30,954	130,289	7,016	22,109
New Mexico	3,675,344	9,455	2,530	1,362,357	2,027,908	2,750	9,805	154	122,913	44,182	51,955	21,238	20,098
New York	6,380,937	7,023	13,303	958,520	1,185,961	6,706	8,843	3,006	3,482,463	115,006	429,339	55,336	115,429
North Carolina	3,283,949	12,122	8,395	350,435	98,561	6,646	13,603	133,877	2,241,008	13,455	212,058	94,695	99,095
North Dakota	210,104	0	0	39,313	23,611	1,516	5,819	0	31,786	699	32,526	74,465	369
Ohio	10,320,672	10,604	9,157	8,700,886	103,316	4,738	20,732	66,734	1,041,634	149,266	101,010	53,049	59,546
Oklahoma	613,431	0	65,867	210,647	25,054	34,063	12,949	7,976	156,764	6,372	41,569	37,220	14,950

Table 60. Federal obligations for research and experimental development, by state or location and agency: FY 2024

(Dollars in thousands)

State or location	Total	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA	Other ^a
Oregon	782,421	508	9,221	73,350	30,296	8,446	4,025	16,064	394,497	14,342	79,124	85,959	66,590
Pennsylvania	5,152,250	7,390	11,619	1,581,039	729,944	6,287	37,274	5,977	2,260,635	74,568	278,225	76,745	82,547
Rhode Island	929,847	195	25,158	565,645	5,869	340	*	10,107	239,973	7,702	51,780	2,773	20,305
South Carolina	2,558,608	4,290	10,776	1,434,473	78,168	670	7,457	79	867,261	13,523	65,896	39,360	36,654
South Dakota	129,804	0	*	19,586	33,555	0	1,494	0	29,552	8,332	22,888	13,300	1,097
Tennessee	3,894,129	9,717	2,519	904,251	1,492,471	4,038	8,610	40,360	855,042	267,483	107,596	47,801	154,241
Texas	7,673,566	23,543	30,744	4,427,287	194,066	8,599	47,278	10,342	1,859,804	450,916	367,249	154,701	99,036
Utah	5,202,729	1,618	1,592	4,523,085	46,450	6,750	1,920	2,491	309,017	124,954	72,497	40,927	71,428
Vermont	189,892	2,625	2,566	57,228	1,950	1,886	1,728	0	55,375	2,959	19,085	37,157	7,335
Virginia	15,116,135	194,129	31,988	12,130,293	332,794	72,150	129,156	22,036	649,340	1,017,783	305,498	42,490	188,477
Washington	3,262,659	6,082	47,060	724,678	726,769	14,406	11,810	1,623	1,343,023	81,696	130,948	91,050	83,515
West Virginia	298,466	0	426	116,306	31,136	3,117	1,471	0	75,359	3,564	24,258	40,739	2,090
Wisconsin	1,140,823	4	8,372	178,020	123,100	6,723	2,462	3,332	586,200	19,155	95,633	85,991	31,832
Wyoming	111,223	190	536	1,062	60,251	12,895	3,731	0	10,335	1,668	16,255	4,299	0
Outlying areas	565,881	504	4,190	448,376	0	5,953	1,287	0	52,109	848	23,420	24,668	4,526
American Samoa	2,392	0	0	0	0	0	0	0	0	0	368	2,024	0
Guam	9,367	0	0	0	0	0	0	0	2,220	0	4,174	2,973	0
Northern Mariana Islands	2,085	0	0	36	0	0	0	0	0	0	0	2,049	0
Puerto Rico	90,285	504	2,835	3,339	0	758	1,150	0	49,443	848	17,241	13,176	991
U.S. Virgin Islands	4,572	0	0	151	0	0	0	0	446	0	1,637	2,337	0
Other areas ^b	457,180	0	1,355	444,849	0	5,195	137	0	0	0	0	2,109	3,535
Offices abroad ^c	108,867	596	0	98,050	351	0	0	82	1,964	0	0	0	7,822
Undistributed ^d	5,492,406	NA	NA	5,492,406	NA	NA	NA	NA	NA	NA	NA	NA	NA

* = amount greater than \$0 but less than \$500. NA = not available; agency did not provide data.

DHS = Department of Homeland Security; DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; DOI = Department of the Interior; DOT = Department of Transportation; EPA = Environmental Protection Agency; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = Department of Agriculture.

^a Other includes data for the Departments of Education, Justice, Labor, State, the Treasury, and Veterans Affairs; the Agency for Global Media; the Agency for International Development; the Appalachian Regional Commission; the Consumer Product Safety Commission; the Federal Trade Commission; the Nuclear Regulatory Commission; the Patient-Centered Outcomes Research Trust Fund; the Postal Service; the RESTORE Act Centers of Excellence Research Grants Program; the Smithsonian Institution; the Social Security Administration; and the Tennessee Valley Authority.^b Other areas includes Baker Island, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Navassa Island, Palmyra Atoll, and Wake Island.^c Offices abroad includes R&D performed or administered in foreign countries by the U.S. government.^d Undistributed includes DOD obligations for which the location of performance is not reported.**Note(s):**Because of rounding, detail may not add to total. Geographic distribution of DOD development funding to businesses reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.**Source(s):**

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 61. Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Alabama	7,779,925	3,372,619	2,106	3,699,601	657,890	30,424	17,286
Departments							
Department of Agriculture	61,815	5,588	0	650	53,407	1,454	716
Department of Commerce	60,951	15,595	0	1,591	42,552	250	963
Department of Defense	6,561,678	3,332,756	2,106	3,169,777	42,985	14,055	0
Department of Education	2,730	0	0	0	450	0	2,280
Department of Energy	46,588	0	0	29,301	14,397	1,931	959
Department of Health and Human Services	392,475	149	0	7,179	379,181	4,239	1,726
Department of Homeland Security	6,369	1	0	1,662	4,707	0	0
Department of the Interior	949	469	0	0	449	0	30
Department of Justice	1,124	0	0	0	1,124	0	0
Department of Transportation	24,207	1	0	5,395	8,600	0	10,211
Department of Veterans Affairs	15,706	15,706	0	0	0	0	0
Other agencies							
Agency for International Development	6,678	0	0	0	0	6,678	0
Environmental Protection Agency	117	0	0	0	117	0	0
National Aeronautics and Space Administration	522,146	2,354	0	482,250	37,141	0	400
National Science Foundation	75,897	0	0	1,795	72,286	1,816	0
Nuclear Regulatory Commission	494	0	0	0	494	0	0
Alaska	372,625	92,763	0	136,885	119,401	10,327	13,249
Departments							
Department of Agriculture	15,322	9,022	0	600	3,541	0	2,160
Department of Commerce	10,194	3,187	0	0	6,666	341	0
Department of Defense	210,901	58,713	0	132,881	16,181	3,026	100
Department of Education	5,700	0	0	0	5,700	0	0
Department of Energy	14,066	0	0	3	12,960	103	1,000
Department of Health and Human Services	16,053	198	0	0	6,444	2,726	6,685
Department of Homeland Security	9,450	250	0	0	9,200	0	0
Department of the Interior	22,143	21,391	0	255	218	17	261
Department of Transportation	3,777	3	0	792	769	0	2,214
Other agencies							
Environmental Protection Agency	519	0	0	51	467	0	0
National Aeronautics and Space Administration	20,713	0	0	1,231	19,483	0	0
National Science Foundation	43,628	0	0	913	37,772	4,113	830
Nuclear Regulatory Commission	160	0	0	160	0	0	0
Arizona	2,347,986	140,696	93,790	1,410,859	556,654	126,772	19,215

Table 61. Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Departments							
Department of Agriculture	32,537	21,213	0	1,184	9,896	44	200
Department of Commerce	3,360	0	0	436	2,923	0	0
Department of Defense	1,456,766	76,121	0	1,322,647	46,030	5,368	6,601
Department of Education	6,177	0	0	0	3,897	0	2,280
Department of Energy	64,052	11	0	33,661	30,378	1	0
Department of Health and Human Services	393,883	12,096	0	18,054	245,017	111,649	7,067
Department of Homeland Security	9,192	4,508	0	0	4,683	0	0
Department of the Interior	15,799	14,654	0	0	1,065	1	78
Department of Justice	731	0	0	0	39	691	0
Department of Transportation	2,994	4	0	0	0	0	2,990
Department of Veterans Affairs	10,288	10,288	0	0	0	0	0
Other agencies							
Agency for International Development	6,750	0	0	0	6,750	0	0
National Aeronautics and Space Administration	103,817	1,799	0	27,880	65,562	8,575	0
National Science Foundation	241,280	0	93,790	6,636	140,413	442	0
Nuclear Regulatory Commission	362	0	0	362	0	0	0
Arkansas	325,495	47,566	0	84,070	173,855	15,235	4,769
Departments							
Department of Agriculture	59,209	28,825	0	0	28,873	898	612
Department of Commerce	15,060	0	0	0	15,000	60	0
Department of Defense	83,902	1,975	0	68,570	13,150	207	0
Department of Energy	5,784	0	0	1,206	4,578	0	0
Department of Health and Human Services	111,271	0	0	11,983	84,151	14,070	1,067
Department of Homeland Security	1	0	0	1	0	0	0
Department of the Interior	3,629	3,616	0	0	0	0	13
Department of Transportation	4,613	1	0	0	1,534	0	3,077
Department of Veterans Affairs	13,148	13,148	0	0	0	0	0
Other agencies							
National Aeronautics and Space Administration	544	0	0	83	461	0	0
National Science Foundation	28,335	0	0	2,228	26,107	0	0
California	24,603,898	3,354,904	5,077,414	9,530,473	5,544,017	1,023,443	73,646
Departments							
Department of Agriculture	190,125	111,282	0	6,513	62,442	3,587	6,301
Department of Commerce	49,380	832	0	8,757	34,318	5,473	0
Department of Defense	11,457,335	2,931,214	510,490	7,488,186	408,242	117,013	2,189

Table 61. Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Education	68,375	0	0	18,450	28,722	10,944	10,259
Department of Energy	3,096,270	1,360	2,535,041	303,959	218,376	36,584	949
Department of Health and Human Services	5,448,357	143	38,967	710,620	3,931,952	759,190	7,486
Department of Homeland Security	29,697	5,333	4,232	10,757	3,241	6,135	0
Department of the Interior	38,337	23,422	0	1,419	12,586	630	280
Department of Justice	3,601	0	0	847	2,754	0	0
Department of Transportation	72,242	224	0	20,347	8,225	0	43,446
Department of the Treasury	3,300	0	3,300	0	0	0	0
Department of Veterans Affairs	264,155	264,155	0	0	0	0	0
Other agencies							
Agency for Global Media	238	0	0	238	0	0	0
Agency for International Development	15,763	0	0	2,671	12,792	300	0
Environmental Protection Agency	5,565	0	75	3,910	1,580	0	0
National Aeronautics and Space Administration	3,051,356	13,776	1,984,540	889,218	127,749	33,344	2,730
National Science Foundation	797,526	3,163	186	62,750	690,538	40,884	6
Nuclear Regulatory Commission	2,915	0	584	1,830	500	0	0
Tennessee Valley Authority	9,360	0	0	0	0	9,360	0
Colorado	9,213,288	394,936	1,053,406	6,573,242	1,064,670	98,726	28,307
Departments							
Department of Agriculture	73,488	48,905	0	2,807	21,065	447	264
Department of Commerce	253,663	184,874	2	5,942	61,553	1,292	0
Department of Defense	6,376,900	72,911	16,920	6,203,541	68,093	15,435	0
Department of Education	9,504	0	0	0	623	4,409	4,472
Department of Energy	1,061,188	25	907,924	49,418	101,189	2,631	0
Department of Health and Human Services	596,060	1,649	0	33,455	507,866	50,500	2,590
Department of Homeland Security	2,648	452	0	2,196	0	0	0
Department of the Interior	40,303	33,320	300	1,006	4,737	34	907
Department of Justice	4,297	0	0	0	4,297	0	0
Department of Transportation	16,826	4,793	0	988	6,208	0	4,836
Department of Veterans Affairs	39,961	39,961	0	0	0	0	0
Other agencies							
Environmental Protection Agency	7,531	2,119	0	2,920	117	2,375	0
National Aeronautics and Space Administration	409,482	4,466	0	261,192	141,227	2,597	0
National Science Foundation	320,536	1,461	128,260	9,777	146,795	19,006	15,237
Nuclear Regulatory Commission	900	0	0	0	900	0	0
Connecticut	2,127,020	53,063	0	1,176,749	872,609	13,072	11,528

Table 61. Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Departments							
Department of Agriculture	11,484	1,724	0	0	7,414	2,029	317
Department of Commerce	2,747	0	0	11	2,736	0	0
Department of Defense	1,138,335	9,848	0	1,074,150	52,922	1,416	0
Department of Education	5,994	0	0	0	5,693	0	301
Department of Energy	71,847	2	0	43,765	27,424	656	0
Department of Health and Human Services	763,864	0	0	31,664	718,451	7,042	6,707
Department of Homeland Security	4,238	479	0	3,758	0	0	0
Department of the Interior	1,436	1,052	0	0	369	0	15
Department of Justice	2,332	0	0	0	1,332	1,000	0
Department of Transportation	8,005	3	0	3,815	0	0	4,187
Department of Veterans Affairs	39,953	39,953	0	0	0	0	0
Other agencies							
Agency for International Development	1,290	0	0	0	555	735	0
Environmental Protection Agency	1,542	0	0	1,426	117	0	0
National Aeronautics and Space Administration	21,134	2	0	16,888	4,245	0	0
National Science Foundation	52,818	0	0	1,273	51,351	195	0
Delaware	250,548	6,873	0	62,668	161,519	17,245	2,243
Departments							
Department of Agriculture	10,050	1,194	0	175	8,680	0	0
Department of Commerce	19,040	150	0	101	18,789	0	0
Department of Defense	53,992	5,185	0	28,928	18,206	1,673	0
Department of Education	1,815	0	0	0	1,514	0	301
Department of Energy	12,851	0	0	5,038	7,813	0	0
Department of Health and Human Services	87,154	0	0	24,688	49,953	12,138	375
Department of the Interior	1,283	339	0	0	944	0	0
Department of Transportation	1,865	*	0	0	299	0	1,567
Other agencies							
Agency for Global Media	*	0	0	*	0	0	0
Environmental Protection Agency	187	0	0	0	187	0	0
National Aeronautics and Space Administration	7,435	5	0	2,238	1,968	3,225	0
National Science Foundation	54,876	0	0	1,501	53,165	210	0
District of Columbia	10,176,965	7,120,818	47,455	1,690,200	272,929	1,031,252	14,310
Departments							
Department of Agriculture	458,164	442,155	0	175	13,390	1,743	700
Department of Commerce	396,415	392,615	0	714	2,115	971	0

Table 61. Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Defense	3,837,236	2,680,154	38,254	898,044	30,869	189,566	350
Department of Education	10,239	0	0	0	2,557	7,681	0
Department of Energy	1,374,600	1,336,949	0	18,982	6,484	11,677	508
Department of Health and Human Services	337,887	75,443	0	23,456	155,488	82,993	508
Department of Homeland Security	36,653	24,722	0	10,604	0	1,327	0
Department of the Interior	25,489	16,984	2	260	5,112	3,041	90
Department of Justice	34,693	6,816	0	16,676	0	4,913	6,287
Department of Labor	2,354	1,050	0	1,304	0	0	0
Department of State	34,388	34,388	0	0	0	0	0
Department of Transportation	294,389	124,953	9,200	140,977	2,548	10,929	5,782
Department of the Treasury	2,250	2,250	0	0	0	0	0
Department of Veterans Affairs	256,789	256,789	0	0	0	0	0
Other agencies							
Agency for Global Media	3,698	2,916	0	782	0	0	0
Agency for International Development	22,724	21,804	0	425	0	496	0
Appalachian Regional Commission	126	0	0	0	0	126	0
Environmental Protection Agency	68,842	62,597	0	5,105	0	1,139	0
Federal Trade Commission	834	834	0	0	0	0	0
National Aeronautics and Space Administration	2,009,260	1,408,549	0	537,536	25,981	37,194	0
National Science Foundation	117,308	10,191	0	9,356	28,385	69,291	85
Nuclear Regulatory Commission	3,020	1,734	0	1,286	0	0	0
Patient-Centered Outcomes Research Trust Fund	605,450	0	0	0	0	605,450	0
Postal Service	4,918	0	0	4,918	0	0	0
Smithsonian Institution	168,350	168,350	0	0	0	0	0
Social Security Administration	70,891	48,578	0	19,599	0	2,714	0
Florida	4,633,608	886,720	0	2,291,647	1,249,545	193,360	12,337
Departments							
Department of Agriculture	91,778	37,608	0	1,130	48,877	1,623	2,539
Department of Commerce	60,259	19,404	0	511	38,604	211	1,530
Department of Defense	2,965,051	747,259	0	2,063,404	124,248	30,040	100
Department of Education	22,084	0	0	557	14,355	4,892	2,280
Department of Energy	75,968	14	0	17,166	57,191	1,597	0
Department of Health and Human Services	867,452	1,600	0	47,264	662,017	153,607	2,965
Department of Homeland Security	5,848	1,865	0	3,004	980	0	0
Department of the Interior	28,711	20,890	0	791	7,000	0	30
Department of Justice	8,056	0	0	0	8,056	0	0

Table 61. Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Transportation	32,913	25	0	3,382	26,614	0	2,893
Department of Veterans Affairs	44,203	44,203	0	0	0	0	0
Other agencies							
Agency for International Development	5,291	0	0	0	5,291	0	0
Environmental Protection Agency	11,222	11,085	0	20	117	0	0
National Aeronautics and Space Administration	184,315	2,769	0	128,578	52,612	357	0
National Science Foundation	229,040	0	0	25,841	202,164	1,035	0
Nuclear Regulatory Commission	1,419	0	0	0	1,419	0	0
Georgia	1,987,809	286,227	0	362,046	1,226,990	23,049	89,496
Departments							
Department of Agriculture	127,253	70,105	0	581	56,026	151	390
Department of Commerce	2,268	44	0	0	2,224	0	0
Department of Defense	646,380	156,011	0	292,126	185,652	12,591	0
Department of Education	11,685	0	0	0	8,865	2,820	0
Department of Energy	133,925	1	0	11,269	55,503	1,013	66,139
Department of Health and Human Services	807,181	6,932	0	36,115	745,412	6,475	12,248
Department of Homeland Security	1,174	0	0	575	599	0	0
Department of the Interior	2,340	1,237	0	0	1,103	0	0
Department of Transportation	23,615	9	0	11,056	1,831	0	10,720
Department of Veterans Affairs	41,908	41,908	0	0	0	0	0
Other agencies							
Agency for International Development	5,700	1,700	0	1,000	3,000	0	0
Environmental Protection Agency	8,742	8,151	0	141	450	0	0
National Aeronautics and Space Administration	21,687	131	0	2,941	18,615	0	0
National Science Foundation	152,374	0	0	5,164	147,210	0	0
Nuclear Regulatory Commission	1,577	0	0	1,077	500	0	0
Hawaii	487,029	150,007	2,164	123,988	186,455	23,014	1,401
Departments							
Department of Agriculture	26,768	17,458	0	2,244	6,094	904	68
Department of Commerce	10,092	2,949	0	0	6,896	247	0
Department of Defense	276,640	124,646	2,164	109,476	27,160	13,194	0
Department of Energy	15,604	0	0	1,205	14,400	0	0
Department of Health and Human Services	74,175	0	0	8,912	62,526	2,208	529
Department of the Interior	3,632	3,405	0	0	218	10	0
Department of Transportation	1,054	0	0	0	250	0	804
Department of Veterans Affairs	1,381	1,381	0	0	0	0	0

Table 61. Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Other agencies							
National Aeronautics and Space Administration	28,672	168	0	1,163	22,565	4,775	0
National Science Foundation	49,012	0	0	988	46,346	1,678	0
Idaho	918,233	93,492	646,696	96,804	77,989	1,050	2,202
Departments							
Department of Agriculture	36,535	22,763	0	650	12,462	115	545
Department of Commerce	2,875	0	0	0	2,875	0	0
Department of Defense	149,856	62,668	3,856	81,412	1,740	181	0
Department of Education	130	0	0	0	130	0	0
Department of Energy	647,599	160	632,339	12,426	2,675	0	0
Department of Health and Human Services	22,537	0	0	1,315	20,060	753	408
Department of Homeland Security	201	201	0	0	0	0	0
Department of the Interior	5,124	4,637	0	69	418	0	0
Department of Transportation	898	*	0	0	0	0	897
Department of Veterans Affairs	3,063	3,063	0	0	0	0	0
Other agencies							
Environmental Protection Agency	242	0	62	180	0	0	0
National Aeronautics and Space Administration	2,059	0	0	478	1,580	0	0
National Science Foundation	36,478	0	0	275	35,852	0	351
Nuclear Regulatory Commission	10,636	0	10,439	0	197	0	0
Illinois	4,014,120	421,284	1,301,084	340,940	1,738,124	200,760	11,928
Departments							
Department of Agriculture	65,659	41,640	0	650	22,574	660	135
Department of Commerce	2,853	290	0	16	2,527	20	0
Department of Defense	624,876	297,948	1,664	184,868	131,234	9,163	0
Department of Education	4,886	0	0	0	4,557	0	329
Department of Energy	1,456,159	442	1,281,670	33,710	121,305	18,962	70
Department of Health and Human Services	1,316,052	0	10,934	62,411	1,093,062	146,308	3,337
Department of Homeland Security	30,034	20,147	3,188	1,399	5,301	*	0
Department of the Interior	3,304	3,133	0	77	93	0	0
Department of Justice	3,009	0	0	0	1,225	1,784	0
Department of Transportation	22,895	5	180	2,202	10,304	2,148	8,056
Department of Veterans Affairs	57,148	57,148	0	0	0	0	0
Other agencies							
Agency for International Development	8,264	0	0	0	8,264	0	0
Appalachian Regional Commission	26	0	0	0	0	26	0

Table 61. Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Environmental Protection Agency	42,628	0	352	37,993	4,284	0	0
National Aeronautics and Space Administration	33,357	531	605	6,162	25,311	749	0
National Science Foundation	339,134	0	0	11,408	306,785	20,941	0
Nuclear Regulatory Commission	3,835	0	2,491	45	1,300	0	0
Indiana	2,814,407	1,064,372	0	995,159	673,376	72,355	9,143
Departments							
Department of Agriculture	31,128	7,643	0	507	22,388	0	590
Department of Commerce	3,576	0	0	0	3,576	0	0
Department of Defense	2,091,874	1,029,608	0	927,025	63,855	71,385	*
Department of Education	1,677	0	0	0	1,677	0	0
Department of Energy	67,551	0	0	15,954	51,597	0	0
Department of Health and Human Services	409,447	0	0	35,775	371,775	40	1,858
Department of Homeland Security	2,212	1,109	0	1,102	0	0	0
Department of the Interior	5,436	3,575	0	0	1,860	0	0
Department of Justice	347	0	0	0	347	0	0
Department of Transportation	5,814	2	0	0	116	0	5,695
Department of Veterans Affairs	22,431	22,431	0	0	0	0	0
Other agencies							
Agency for International Development	4,268	0	0	0	4,268	0	0
Appalachian Regional Commission	444	0	0	444	0	0	0
Environmental Protection Agency	154	0	0	0	154	0	0
National Aeronautics and Space Administration	17,627	3	0	7,241	9,628	755	0
National Science Foundation	148,737	0	0	7,111	140,451	175	1,000
Nuclear Regulatory Commission	1,683	0	0	0	1,683	0	0
Iowa	831,114	117,474	33,679	281,255	383,387	6,433	8,886
Departments							
Department of Agriculture	104,474	69,705	0	4,745	29,881	85	59
Department of Commerce	584	0	0	234	350	0	0
Department of Defense	289,388	10,958	199	263,359	14,680	193	0
Department of Education	2,268	0	0	0	0	2,268	0
Department of Energy	64,135	0	33,480	3,734	24,389	2,532	0
Department of Health and Human Services	236,638	0	0	6,508	227,029	1,355	1,746
Department of Homeland Security	905	0	0	0	905	0	0
Department of the Interior	764	491	0	273	0	0	0
Department of Justice	1,901	0	0	0	1,901	0	0
Department of Transportation	19,065	0	0	0	11,984	0	7,081

Table 61. Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Veterans Affairs	36,315	36,315	0	0	0	0	0
Other agencies							
National Aeronautics and Space Administration	15,205	6	0	1,960	13,239	0	0
National Science Foundation	59,472	0	0	443	59,030	0	0
Kansas	516,066	164,130	0	44,122	287,253	6,645	13,916
Departments							
Department of Agriculture	180,002	157,864	0	87	21,450	366	235
Department of Commerce	5,232	0	0	0	5,232	0	0
Department of Defense	73,779	2,904	0	19,802	51,043	30	0
Department of Education	10,412	0	0	0	10,412	0	0
Department of Energy	15,610	0	0	6,605	9,005	0	0
Department of Health and Human Services	139,942	0	0	6,318	131,520	261	1,844
Department of Homeland Security	1	0	0	1	0	0	0
Department of the Interior	3,689	2,308	0	0	1,381	0	0
Department of Transportation	13,284	4	0	27	1,416	0	11,837
Department of Veterans Affairs	1,049	1,049	0	0	0	0	0
Other agencies							
Agency for International Development	8,264	0	0	0	8,264	0	0
Environmental Protection Agency	155	0	0	155	0	0	0
National Aeronautics and Space Administration	14,332	0	0	9,558	4,774	0	0
National Science Foundation	49,815	0	0	1,570	42,257	5,989	0
Nuclear Regulatory Commission	500	0	0	0	500	0	0
Kentucky	466,067	74,610	698	56,067	322,465	7,903	4,325
Departments							
Department of Agriculture	35,112	4,228	0	2,489	28,351	11	34
Department of Commerce	541	0	0	200	341	0	0
Department of Defense	38,134	2,188	698	20,154	14,994	100	0
Department of Education	7,819	0	0	0	382	7,437	0
Department of Energy	85,868	59,187	0	4,078	22,603	0	0
Department of Health and Human Services	230,594	0	0	14,011	215,072	355	1,156
Department of the Interior	1,990	685	0	0	1,305	0	0
Department of Transportation	4,638	117	0	676	710	0	3,135
Department of Veterans Affairs	8,204	8,204	0	0	0	0	0
Other agencies							
National Aeronautics and Space Administration	7,486	1	0	6,815	670	0	0
National Science Foundation	45,682	0	0	7,645	38,038	0	0

Table 61. Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Louisiana	495,430	53,823	400	72,765	338,900	21,781	7,762
Departments							
Department of Agriculture	58,231	37,438	0	0	20,743	0	51
Department of Commerce	2,435	0	0	0	535	1,900	0
Department of Defense	105,166	1,365	400	57,655	27,005	18,741	0
Department of Education	294	0	0	0	294	0	0
Department of Energy	10,371	380	0	2,899	7,009	83	0
Department of Health and Human Services	212,692	5,342	0	2,091	202,639	969	1,652
Department of Homeland Security	6	2	0	4	0	0	0
Department of the Interior	643	633	0	0	0	0	10
Department of Transportation	6,363	7	0	0	2,011	0	4,346
Department of Veterans Affairs	8,619	8,619	0	0	0	0	0
Other agencies							
Environmental Protection Agency	5,426	0	0	5,426	0	0	0
National Aeronautics and Space Administration	6,246	36	0	759	4,715	0	735
National Science Foundation	78,436	0	0	3,930	73,449	89	968
Nuclear Regulatory Commission	500	0	0	0	500	0	0
Maine	297,702	9,206	0	77,957	88,038	120,908	1,592
Departments							
Department of Agriculture	29,857	7,863	0	430	20,227	475	862
Department of Commerce	5,869	1	0	0	5,252	616	0
Department of Defense	82,118	0	0	59,779	21,657	682	0
Department of Energy	16,219	0	0	6,209	10,010	0	0
Department of Health and Human Services	123,854	0	0	4,380	10,921	107,993	560
Department of Homeland Security	*	0	0	*	0	0	0
Department of the Interior	1,017	960	0	0	0	0	56
Department of Transportation	114	*	0	0	0	0	114
Department of Veterans Affairs	372	372	0	0	0	0	0
Other agencies							
Environmental Protection Agency	3,186	0	0	693	2,493	0	0
National Aeronautics and Space Administration	7,116	9	0	5,409	885	812	0
National Science Foundation	27,970	0	0	1,046	16,593	10,330	0
Nuclear Regulatory Commission	10	0	0	10	0	0	0
Maryland	21,456,402	13,714,652	585,923	3,314,139	3,234,400	584,319	22,971
Departments							
Department of Agriculture	223,584	197,646	0	837	24,750	315	35

Table 61. Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
				United States and U.S. territories			
		Federal agencies ^a	FFRDCs	Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Commerce	1,329,807	1,234,174	23,291	42,705	26,271	1,123	2,244
Department of Defense	5,761,291	2,697,407	21,473	1,551,278	1,009,734	480,641	758
Department of Education	4,445	0	0	0	4,164	281	0
Department of Energy	154,535	43,764	0	55,009	52,728	34	3,000
Department of Health and Human Services	11,948,503	9,452,971	531,467	705,492	1,163,330	90,636	4,607
Department of Homeland Security	45,371	18,329	9,691	9,677	7,645	30	0
Department of the Interior	15,945	14,931	0	631	254	89	39
Department of Justice	7,428	1,349	0	4,215	1,863	0	0
Department of Transportation	43,125	5,240	0	15,028	12,069	3,000	7,788
Department of Veterans Affairs	35,984	35,984	0	0	0	0	0
Other agencies							
Agency for International Development	20,690	437	0	1,440	18,320	493	0
Consumer Product Safety Commission	47	47	0	0	0	0	0
Environmental Protection Agency	14,991	0	0	14,874	117	0	0
National Aeronautics and Space Administration	1,474,287	10,253	0	655,169	805,312	3,553	0
National Science Foundation	365,847	1,069	0	255,437	105,217	4,123	0
Nuclear Regulatory Commission	2,898	250	0	2,148	500	0	0
Social Security Administration	7,627	802	0	198	2,127	0	4,500
Massachusetts	9,529,390	652,673	1,011,783	3,560,160	2,067,549	2,228,767	8,457
Departments							
Department of Agriculture	40,712	18,435	0	706	21,332	240	0
Department of Commerce	36,677	7,931	0	849	24,597	2,301	1,000
Department of Defense	4,360,371	238,292	928,756	2,715,427	291,785	186,111	0
Department of Education	40,958	0	0	9,687	12,133	19,138	0
Department of Energy	223,556	2,315	0	119,338	101,413	490	0
Department of Health and Human Services	3,730,765	144	8,295	505,269	1,236,627	1,977,451	2,978
Department of Homeland Security	31,195	10,393	2,702	12,955	5,146	0	0
Department of the Interior	9,397	6,763	126	606	1,849	39	13
Department of Justice	3,959	0	0	0	3,959	0	0
Department of Transportation	160,268	68,650	71,727	11,046	4,380	0	4,466
Department of Veterans Affairs	195,936	195,936	0	0	0	0	0
Other agencies							
Agency for International Development	8,300	0	0	0	8,300	0	0
Environmental Protection Agency	14,528	0	0	9,744	560	4,224	0
National Aeronautics and Space Administration	197,128	103,813	177	32,501	54,844	5,792	0
National Science Foundation	469,414	0	0	142,031	297,173	30,210	0

Table 61. Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Nuclear Regulatory Commission	600	0	0	0	600	0	0
Social Security Administration	5,624	0	0	0	2,852	2,772	0
Michigan	2,599,384	207,318	0	828,921	1,463,501	84,618	15,025
Departments							
Department of Agriculture	29,023	2,434	0	160	25,814	0	615
Department of Commerce	24,545	7,499	0	278	16,528	240	0
Department of Defense	943,426	145,619	0	676,806	85,542	35,460	0
Department of Education	9,832	0	0	0	9,487	345	0
Department of Energy	265,315	0	0	93,855	169,660	0	1,800
Department of Health and Human Services	991,832	238	0	35,477	904,595	46,874	4,648
Department of Homeland Security	2,784	0	0	2,338	446	0	0
Department of the Interior	5,175	5,092	0	0	83	0	0
Department of Justice	6,517	0	0	2,000	4,517	0	0
Department of Transportation	17,803	244	0	3,659	5,937	0	7,962
Department of Veterans Affairs	46,186	46,186	0	0	0	0	0
Other agencies							
Agency for International Development	8,736	0	0	0	8,736	0	0
Environmental Protection Agency	3,930	0	0	1,084	2,846	0	0
National Aeronautics and Space Administration	38,592	7	0	8,593	29,992	0	0
National Science Foundation	203,228	0	0	4,671	196,857	1,700	0
Social Security Administration	2,461	0	0	0	2,461	0	0
Minnesota	1,364,192	153,666	0	255,702	584,145	354,429	16,250
Departments							
Department of Agriculture	58,626	24,277	0	2,151	31,110	35	1,053
Department of Commerce	4,161	0	0	30	4,131	0	0
Department of Defense	329,592	86,985	0	159,734	45,600	37,274	0
Department of Education	3,252	0	0	0	2,210	1,041	0
Department of Energy	58,981	0	0	22,719	31,278	*	4,985
Department of Health and Human Services	761,765	0	0	61,233	382,147	314,592	3,794
Department of Homeland Security	3	0	0	3	0	0	0
Department of the Interior	8,552	2,733	0	0	5,792	0	26
Department of Transportation	7,854	1	0	375	1,246	0	6,232
Department of Veterans Affairs	28,089	28,089	0	0	0	0	0
Other agencies							
Agency for International Development	700	0	0	700	0	0	0
Environmental Protection Agency	12,525	11,574	0	41	910	0	0

Table 61. Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
National Aeronautics and Space Administration	9,637	6	0	2,728	6,903	0	0
National Science Foundation	80,436	0	0	5,971	72,818	1,487	159
Nuclear Regulatory Commission	19	0	0	19	0	0	0
Mississippi	479,209	221,069	0	63,836	190,119	934	3,251
Departments							
Department of Agriculture	130,761	81,206	0	119	48,730	0	705
Department of Commerce	18,125	11	0	0	18,114	0	0
Department of Defense	152,860	101,822	0	47,317	3,535	185	0
Department of Energy	10,224	270	0	5,204	4,750	0	0
Department of Health and Human Services	67,502	224	0	4,105	61,604	750	820
Department of the Interior	1,981	1,939	0	0	29	0	13
Department of Transportation	14,391	0	0	38	12,642	0	1,712
Department of Veterans Affairs	1,021	1,021	0	0	0	0	0
Other agencies							
Agency for International Development	4,492	0	0	0	4,492	0	0
National Aeronautics and Space Administration	41,281	33,319	0	6,503	1,459	0	1
National Science Foundation	36,570	1,257	0	550	34,764	0	0
Missouri	2,375,775	95,994	0	1,202,526	1,022,728	46,756	7,772
Departments							
Department of Agriculture	43,620	11,721	0	585	30,041	1,176	97
Department of Commerce	8,194	1,207	0	371	6,617	0	0
Department of Defense	1,061,605	38,791	0	989,055	26,934	6,825	0
Department of Education	10,876	0	0	0	10,876	0	0
Department of Energy	103,738	3	0	68,284	29,952	5,499	0
Department of Health and Human Services	891,148	0	0	29,194	837,438	21,764	2,752
Department of Homeland Security	4,894	4,894	0	*	0	0	0
Department of the Interior	13,294	10,734	0	0	2,548	12	0
Department of Transportation	13,145	4	0	6,125	2,093	0	4,924
Department of Veterans Affairs	28,637	28,637	0	0	0	0	0
Other agencies							
Agency for International Development	1,397	0	0	0	0	1,397	0
Environmental Protection Agency	156	0	0	0	156	0	0
National Aeronautics and Space Administration	120,068	4	0	107,138	12,926	0	0
National Science Foundation	74,306	0	0	1,775	62,449	10,082	0
Nuclear Regulatory Commission	699	0	0	0	699	0	0
Montana	264,521	58,053	0	20,569	176,752	5,119	4,028

Table 61. Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Departments							
Department of Agriculture	34,294	14,245	0	86	19,129	34	800
Department of Commerce	187	0	0	0	187	0	0
Department of Defense	84,375	0	0	5,282	79,071	22	0
Department of Energy	8,628	0	0	4,199	4,428	1	0
Department of Health and Human Services	81,959	34,318	0	5,492	35,853	5,008	1,289
Department of Homeland Security	1,032	0	0	0	1,032	0	0
Department of the Interior	10,363	9,487	0	0	876	0	0
Department of Transportation	1,939	0	0	0	0	0	1,939
Other agencies							
National Aeronautics and Space Administration	8,042	3	0	5,235	2,748	55	0
National Science Foundation	33,702	0	0	274	33,427	0	0
Nebraska	331,684	44,765	0	10,277	242,186	30,199	4,256
Departments							
Department of Agriculture	72,061	33,197	0	203	21,393	17,000	269
Department of Commerce	168	0	0	0	168	0	0
Department of Defense	40,364	11,100	0	7,211	22,030	23	0
Department of Education	1,479	0	0	0	1,479	0	0
Department of Energy	8,206	0	0	1,025	7,181	0	0
Department of Health and Human Services	133,582	0	0	973	118,730	13,176	703
Department of Homeland Security	12,707	0	0	0	12,707	0	0
Department of the Interior	1,242	249	0	0	993	0	0
Department of Justice	1,500	0	0	0	1,500	0	0
Department of Transportation	5,750	0	0	0	2,466	0	3,284
Other agencies							
Agency for International Development	2,270	0	0	0	2,270	0	0
Environmental Protection Agency	3,726	0	0	25	3,700	0	0
National Aeronautics and Space Administration	1,369	220	0	291	858	0	0
National Science Foundation	47,260	0	0	549	46,711	0	0
Nevada	517,931	36,003	0	380,498	91,884	3,360	6,186
Departments							
Department of Agriculture	7,694	1,677	0	25	4,104	12	1,877
Department of Commerce	6,002	5	0	0	5,997	0	0
Department of Defense	240,444	6,858	0	225,983	7,603	0	0
Department of Education	224	0	0	0	224	0	0
Department of Energy	148,654	435	0	140,509	7,709	0	0

Table 61. Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Health and Human Services	32,711	0	0	3,123	27,603	1,348	638
Department of Homeland Security	785	0	0	785	0	0	0
Department of the Interior	8,473	4,044	0	1,319	2,166	0	944
Department of Justice	4,550	0	0	2,550	0	2,000	0
Department of Transportation	2,731	3	0	0	0	0	2,728
Department of the Treasury	15	0	0	15	0	0	0
Department of Veterans Affairs	2,129	2,129	0	0	0	0	0
Other agencies							
Environmental Protection Agency	117	0	0	0	117	0	0
National Aeronautics and Space Administration	29,084	20,853	0	6,168	2,063	0	0
National Science Foundation	33,819	0	0	20	33,799	0	0
Nuclear Regulatory Commission	500	0	0	0	500	0	0
New Hampshire	530,035	14,063	0	286,423	204,951	20,722	3,875
Departments							
Department of Agriculture	13,387	4,907	0	650	7,718	44	67
Department of Commerce	12,092	60	0	2	10,931	1,098	0
Department of Defense	266,883	5,773	0	245,347	15,556	206	0
Department of Energy	26,220	0	0	6,836	19,384	0	0
Department of Health and Human Services	140,430	0	0	14,104	105,600	19,373	1,353
Department of Homeland Security	202	2	0	200	0	0	0
Department of the Interior	1,811	1,113	0	332	353	0	12
Department of Transportation	3,353	0	0	657	252	0	2,443
Department of Veterans Affairs	1,917	1,917	0	0	0	0	0
Other agencies							
Environmental Protection Agency	1,830	0	0	39	1,792	0	0
National Aeronautics and Space Administration	30,770	290	0	15,697	14,783	0	0
National Science Foundation	31,141	0	0	2,559	28,582	0	0
New Jersey	1,942,200	327,722	119,101	865,834	555,821	64,720	9,004
Departments							
Department of Agriculture	7,016	383	0	479	5,885	0	270
Department of Commerce	31,087	19,796	0	3,121	7,200	971	0
Department of Defense	1,060,589	296,290	0	684,592	56,336	23,349	23
Department of Education	10,061	0	0	4,521	2,264	3,276	0
Department of Energy	194,660	1	119,101	42,855	30,661	41	2,000
Department of Health and Human Services	433,812	0	0	93,681	302,172	35,537	2,423
Department of Homeland Security	974	207	0	753	14	0	0

Table 61. Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
				United States and U.S. territories			
		Federal agencies ^a	FFRDCs	Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of the Interior	2,482	604	0	709	1,151	0	18
Department of Justice	604	0	0	0	604	0	0
Department of Transportation	25,050	42	0	19,321	1,417	0	4,270
Department of the Treasury	3,796	0	0	3,796	0	0	0
Department of Veterans Affairs	7,451	7,451	0	0	0	0	0
Other agencies							
Agency for Global Media	197	0	0	197	0	0	0
Environmental Protection Agency	3,178	2,934	0	10	234	0	0
National Aeronautics and Space Administration	30,954	15	0	8,397	22,537	6	0
National Science Foundation	130,289	0	0	3,402	125,348	1,540	0
New Mexico	3,675,344	656,901	2,129,829	592,299	271,382	18,211	6,722
Departments							
Department of Agriculture	21,238	9,938	0	413	9,588	944	355
Department of Commerce	2,530	101	0	2,429	0	0	0
Department of Defense	1,362,357	420,315	369,479	528,469	42,435	1,659	0
Department of Education	4,648	0	0	0	995	0	3,653
Department of Energy	2,027,908	219,758	1,734,512	15,857	57,759	22	0
Department of Health and Human Services	122,913	0	6,338	3,358	101,229	11,440	549
Department of Homeland Security	9,455	50	1,110	8,295	0	0	0
Department of the Interior	2,750	1,280	0	294	1,175	0	0
Department of Transportation	9,805	1	798	4,289	2,621	0	2,096
Department of the Treasury	2,000	0	2,000	0	0	0	0
Department of Veterans Affairs	3,974	3,974	0	0	0	0	0
Other agencies							
Environmental Protection Agency	154	0	154	0	0	0	0
National Aeronautics and Space Administration	44,182	1,483	7,617	26,690	8,372	0	20
National Science Foundation	51,955	0	0	1,550	46,208	4,147	50
Nuclear Regulatory Commission	9,475	0	7,820	656	1,000	0	0
New York	6,380,937	129,137	589,702	1,277,730	3,734,284	590,689	59,394
Departments							
Department of Agriculture	55,336	19,262	0	836	33,520	1,580	139
Department of Commerce	13,303	1	0	215	11,361	1,726	0
Department of Defense	958,520	48,286	4,200	588,018	207,781	110,231	4
Department of Education	35,351	0	0	356	17,866	17,129	0
Department of Energy	1,185,961	0	572,837	471,284	91,995	48,388	1,457
Department of Health and Human Services	3,482,463	0	4,593	132,405	2,913,696	380,612	51,158

Table 61. Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Homeland Security	7,023	1	0	6,472	0	550	0
Department of the Interior	6,706	4,876	0	0	1,788	0	43
Department of Justice	4,284	0	0	0	3,178	1,106	0
Department of Transportation	8,843	380	0	4,629	3,835	0	0
Department of Veterans Affairs	55,923	55,923	0	0	0	0	0
Other agencies							
Agency for Global Media	746	0	0	746	0	0	0
Agency for International Development	15,142	0	0	0	7,942	7,200	0
Environmental Protection Agency	3,006	0	0	108	2,898	0	0
National Aeronautics and Space Administration	115,006	47	7,518	55,650	50,396	1,395	0
National Science Foundation	429,339	361	0	17,008	384,604	20,773	6,594
Nuclear Regulatory Commission	1,660	0	555	5	1,100	0	0
Social Security Administration	2,324	0	0	0	2,324	0	0
North Carolina	3,283,949	407,225	0	508,308	1,841,142	496,718	30,557
Departments							
Department of Agriculture	94,695	17,923	0	737	72,333	3,251	451
Department of Commerce	8,395	911	0	531	6,454	499	0
Department of Defense	350,435	29,252	0	181,850	111,051	28,282	0
Department of Education	18,001	0	0	0	8,183	5,810	4,009
Department of Energy	98,561	23	0	26,958	61,826	9,755	0
Department of Health and Human Services	2,241,008	199,982	0	253,007	1,371,753	412,325	3,940
Department of Homeland Security	12,122	1	0	5,882	4,952	1,288	0
Department of the Interior	6,646	5,113	0	0	71	1,440	22
Department of Justice	30,569	0	0	0	655	29,913	0
Department of Transportation	13,603	3	0	1,597	4,869	0	7,134
Department of the Treasury	106	0	0	106	0	0	0
Department of Veterans Affairs	38,762	38,762	0	0	0	0	0
Other agencies							
Agency for International Development	9,332	0	0	5,200	1,683	2,449	0
Appalachian Regional Commission	325	0	0	0	325	0	0
Environmental Protection Agency	133,877	115,250	0	16,017	2,610	0	0
National Aeronautics and Space Administration	13,455	4	0	4,592	8,079	779	0
National Science Foundation	212,058	0	0	11,832	184,299	927	15,000
Nuclear Regulatory Commission	2,000	0	0	0	2,000	0	0
North Dakota	210,104	51,265	0	29,204	119,233	4,646	5,755
Departments							

Table 61. Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Agriculture	74,465	47,751	0	103	24,707	884	1,020
Department of Defense	39,313	984	0	28,840	5,950	40	3,500
Department of Energy	23,611	20	0	262	23,329	0	0
Department of Health and Human Services	31,786	0	0	0	27,788	3,723	275
Department of the Interior	1,516	1,321	0	0	195	0	0
Department of Transportation	5,819	820	0	0	4,039	0	960
Department of Veterans Affairs	369	369	0	0	0	0	0
Other agencies							
National Aeronautics and Space Administration	699	0	0	0	699	0	0
National Science Foundation	32,526	0	0	0	32,526	0	0
Ohio	10,320,672	5,339,098	11,284	3,121,840	1,166,115	666,746	15,589
Departments							
Department of Agriculture	53,049	13,111	0	1,720	38,108	0	110
Department of Commerce	9,157	0	0	0	8,194	963	0
Department of Defense	8,700,886	5,191,402	6,404	2,893,115	219,532	390,432	1
Department of Education	5,739	0	0	0	3,018	2,722	0
Department of Energy	103,316	250	3,641	23,778	61,419	13,327	900
Department of Health and Human Services	1,041,634	16,566	0	41,928	724,096	254,000	5,044
Department of Homeland Security	10,604	7,691	1,238	1,675	0	0	0
Department of the Interior	4,738	4,227	0	0	480	0	30
Department of Justice	1,957	0	0	0	1,957	0	0
Department of Transportation	20,732	1,046	0	5,857	3,751	1,094	8,984
Department of Veterans Affairs	49,376	49,376	0	0	0	0	0
Other agencies							
Agency for Global Media	19	0	0	19	0	0	0
Environmental Protection Agency	66,734	52,327	0	13,212	0	1,195	0
National Aeronautics and Space Administration	149,266	2,703	0	134,999	11,116	447	0
National Science Foundation	101,010	399	0	4,681	92,844	2,566	520
Nuclear Regulatory Commission	2,455	0	0	855	1,600	0	0
Oklahoma	613,431	209,916	0	103,582	231,381	59,484	9,068
Departments							
Department of Agriculture	37,220	13,731	0	0	19,137	4,152	200
Department of Commerce	65,867	31,551	0	0	34,317	0	0
Department of Defense	210,647	111,624	0	87,747	9,936	1,340	0
Department of Education	2,633	0	0	0	2,633	0	0
Department of Energy	25,054	0	0	4,086	16,159	4,808	0

Table 61. Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Health and Human Services	156,764	0	0	2,045	101,020	48,167	5,533
Department of the Interior	34,063	33,062	0	0	993	0	8
Department of Justice	205	0	0	0	205	0	0
Department of Transportation	12,949	604	0	7,123	2,909	0	2,313
Department of Veterans Affairs	12,112	12,112	0	0	0	0	0
Other agencies							
Environmental Protection Agency	7,976	6,684	0	75	1,218	0	0
National Aeronautics and Space Administration	6,372	550	0	1,033	4,538	250	0
National Science Foundation	41,569	0	0	1,472	38,317	765	1,015
Oregon	782,421	126,617	0	109,710	508,392	30,337	7,365
Departments							
Department of Agriculture	85,959	56,764	0	0	28,470	23	701
Department of Commerce	9,221	19	0	631	8,571	0	0
Department of Defense	73,350	1,860	0	45,573	24,736	1,181	0
Department of Education	19,036	0	0	0	14,143	4,627	266
Department of Energy	30,296	1,139	0	8,437	13,220	6,000	1,500
Department of Health and Human Services	394,497	172	0	44,564	332,865	15,466	1,431
Department of Homeland Security	508	0	0	8	500	0	0
Department of the Interior	8,446	8,350	0	0	0	0	95
Department of Transportation	4,025	2	0	523	128	0	3,372
Department of Veterans Affairs	46,245	46,245	0	0	0	0	0
Other agencies							
Environmental Protection Agency	16,064	12,063	0	339	3,662	0	0
National Aeronautics and Space Administration	14,342	3	0	6,205	8,134	0	0
National Science Foundation	79,124	0	0	2,120	73,963	3,040	0
Nuclear Regulatory Commission	1,310	0	0	1,310	0	0	0
Pennsylvania	5,152,250	469,250	47,815	1,595,324	2,560,532	460,982	18,346
Departments							
Department of Agriculture	76,745	47,811	0	461	26,623	1,551	298
Department of Commerce	11,619	0	0	432	11,095	92	0
Department of Defense	1,581,039	317,830	47,565	760,997	365,794	88,854	1
Department of Education	11,396	0	0	308	9,108	1,980	0
Department of Energy	729,944	27,275	0	618,982	79,571	119	3,998
Department of Health and Human Services	2,260,635	15,691	0	127,908	1,752,424	361,753	2,860
Department of Homeland Security	7,390	53	250	6,636	452	0	0
Department of the Interior	6,287	4,260	0	0	1,981	25	21

Table 61. Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Justice	6,282	0	0	0	1,946	4,336	0
Department of Transportation	37,274	422	0	19,893	5,790	0	11,169
Department of Veterans Affairs	55,310	55,310	0	0	0	0	0
Other agencies							
Agency for International Development	8,264	0	0	0	8,264	0	0
Environmental Protection Agency	5,977	0	0	3,686	2,291	0	0
National Aeronautics and Space Administration	74,568	600	0	47,906	26,062	0	0
National Science Foundation	278,225	0	0	8,091	267,860	2,274	0
Nuclear Regulatory Commission	1,295	0	0	25	1,270	0	0
Rhode Island	929,847	340,081	0	229,679	273,710	84,852	1,525
Departments							
Department of Agriculture	2,773	0	0	0	2,654	59	60
Department of Commerce	25,158	0	0	644	24,254	260	0
Department of Defense	565,645	309,474	0	222,346	31,273	2,553	0
Department of Energy	5,869	0	0	1,197	4,401	271	*
Department of Health and Human Services	239,973	0	0	4,707	153,956	79,846	1,465
Department of Homeland Security	195	195	0	0	0	0	0
Department of the Interior	340	0	0	122	218	0	0
Department of Transportation	*	*	0	0	0	0	0
Department of Veterans Affairs	20,305	20,305	0	0	0	0	0
Other agencies							
Environmental Protection Agency	10,107	10,107	0	0	0	0	0
National Aeronautics and Space Administration	7,702	0	0	664	6,917	121	0
National Science Foundation	51,780	0	0	0	50,037	1,743	0
South Carolina	2,558,608	200,141	66,482	1,605,838	377,670	298,966	9,512
Departments							
Department of Agriculture	39,360	20,075	0	840	17,406	0	1,039
Department of Commerce	10,776	8,348	0	0	2,099	263	67
Department of Defense	1,434,473	133,868	8,054	965,569	35,917	291,065	0
Department of Energy	78,168	4	56,740	1,994	19,430	0	0
Department of Health and Human Services	867,261	79	0	626,841	229,829	5,324	5,189
Department of Homeland Security	4,290	2,602	1,688	0	0	0	0
Department of the Interior	670	419	0	0	236	0	16
Department of Justice	1,806	0	0	0	1,806	0	0
Department of Transportation	7,457	4	0	164	4,088	0	3,202
Department of Veterans Affairs	34,098	34,098	0	0	0	0	0

Table 61. Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Other agencies							
Environmental Protection Agency	79	0	0	79	0	0	0
National Aeronautics and Space Administration	13,523	0	0	8,344	5,179	0	0
National Science Foundation	65,896	644	0	2,007	60,930	2,315	0
Nuclear Regulatory Commission	749	0	0	0	749	0	0
South Dakota	129,804	11,180	0	25,954	47,772	15,229	29,670
Departments							
Department of Agriculture	13,300	3,130	0	774	9,351	0	45
Department of Commerce	*	0	0	*	0	0	0
Department of Defense	19,586	245	0	19,285	0	54	2
Department of Energy	33,555	0	0	1,703	3,922	0	27,931
Department of Health and Human Services	29,552	0	0	3,382	10,797	15,175	198
Department of Justice	304	0	0	0	304	0	0
Department of Transportation	1,494	0	0	0	0	0	1,494
Department of Veterans Affairs	793	793	0	0	0	0	0
Other agencies							
National Aeronautics and Space Administration	8,332	7,012	0	810	510	0	0
National Science Foundation	22,888	0	0	0	22,888	0	0
Tennessee	3,894,129	843,125	1,270,415	642,433	1,005,856	118,113	14,186
Departments							
Department of Agriculture	47,801	13,503	0	775	32,983	0	540
Department of Commerce	2,519	0	0	0	2,519	0	0
Department of Defense	904,251	730,986	23,501	78,793	67,400	3,486	85
Department of Education	8,912	0	0	0	8,912	0	0
Department of Energy	1,492,471	22,699	1,234,542	166,759	60,890	1	7,580
Department of Health and Human Services	855,042	377	0	10,725	730,555	111,045	2,340
Department of Homeland Security	9,717	2,145	6,122	1	1,450	0	0
Department of the Interior	4,038	3,585	0	0	435	0	18
Department of Transportation	8,610	1	1,650	862	2,473	0	3,625
Department of the Treasury	1,000	0	1,000	0	0	0	0
Department of Veterans Affairs	32,905	32,905	0	0	0	0	0
Other agencies							
Environmental Protection Agency	40,360	0	0	40,244	117	0	0
National Aeronautics and Space Administration	267,483	9,669	0	233,812	24,002	0	0
National Science Foundation	107,596	27,255	0	2,638	74,121	3,582	0
Nuclear Regulatory Commission	3,783	0	3,600	183	0	0	0

Table 61. Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Tennessee Valley Authority	107,640	0	0	107,640	0	0	0
Texas	7,673,566	205,659	24,433	4,350,580	2,828,039	216,904	47,952
Departments							
Department of Agriculture	154,701	52,940	0	860	93,945	4,669	2,287
Department of Commerce	30,744	603	0	2,374	27,767	0	0
Department of Defense	4,427,287	89,544	24,433	3,826,989	456,295	30,026	0
Department of Education	34,333	0	0	0	26,063	0	8,270
Department of Energy	194,066	7	0	75,227	113,825	3,007	2,000
Department of Health and Human Services	1,859,804	0	0	89,452	1,667,243	97,846	5,264
Department of Homeland Security	23,543	1,425	0	14,111	8,007	0	0
Department of the Interior	8,599	4,233	0	17	4,215	119	15
Department of Justice	1,977	0	0	0	1,977	0	0
Department of Transportation	47,278	1,223	0	6,240	15,777	979	23,059
Department of Veterans Affairs	53,587	53,587	0	0	0	0	0
Other agencies							
Environmental Protection Agency	10,342	0	0	5,202	5,140	0	0
National Aeronautics and Space Administration	450,916	2,096	0	315,050	55,052	78,491	227
National Science Foundation	367,249	0	0	13,222	351,985	1,767	275
Nuclear Regulatory Commission	2,584	0	0	1,836	747	0	0
RESTORE Act Centers of Excellence Research Grants Program	6,556	0	0	0	0	0	6,556
Utah	5,202,729	316,034	0	4,290,688	577,117	12,753	6,137
Departments							
Department of Agriculture	40,927	22,805	0	1,263	16,858	0	0
Department of Commerce	1,592	0	0	574	1,018	0	0
Department of Defense	4,523,085	225,934	0	4,122,818	169,911	4,423	0
Department of Education	8,141	0	0	0	572	5,289	2,280
Department of Energy	46,450	0	0	31,470	14,075	0	905
Department of Health and Human Services	309,017	0	0	14,441	290,463	3,040	1,073
Department of Homeland Security	1,618	700	0	640	278	0	0
Department of the Interior	6,750	4,662	0	910	1,093	0	85
Department of Justice	664	0	0	0	664	0	0
Department of Transportation	1,920	100	0	27	0	0	1,793
Department of Veterans Affairs	61,773	61,773	0	0	0	0	0
Other agencies							
Appalachian Regional Commission	250	0	0	250	0	0	0
Environmental Protection Agency	2,491	0	0	0	2,491	0	0

Table 61. Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
National Aeronautics and Space Administration	124,954	60	0	115,998	8,896	0	0
National Science Foundation	72,497	0	0	2,298	70,198	0	0
Nuclear Regulatory Commission	600	0	0	0	600	0	0
Vermont	189,892	15,740	0	59,999	110,384	1,514	2,255
Departments							
Department of Agriculture	37,157	5,897	0	647	30,113	500	0
Department of Commerce	2,566	0	0	643	1,922	0	0
Department of Defense	57,228	0	0	48,389	8,691	148	0
Department of Energy	1,950	0	0	1,610	340	0	0
Department of Health and Human Services	55,375	0	0	4,526	49,240	566	1,043
Department of Homeland Security	2,625	1,910	0	715	0	0	0
Department of the Interior	1,886	591	0	0	1,285	0	10
Department of Transportation	1,728	7	0	0	519	0	1,202
Department of Veterans Affairs	7,335	7,335	0	0	0	0	0
Other agencies							
National Aeronautics and Space Administration	2,959	0	0	2,720	239	0	0
National Science Foundation	19,085	0	0	750	18,035	300	0
Virginia	15,116,135	2,148,764	1,488,405	10,371,502	793,048	299,880	14,535
Departments							
Department of Agriculture	42,490	978	0	1,925	28,373	10,844	370
Department of Commerce	31,988	912	0	14,994	12,983	2,135	963
Department of Defense	12,130,293	1,847,354	1,074,541	9,025,580	97,463	84,138	1,218
Department of Education	43,650	0	0	680	11,201	31,769	0
Department of Energy	332,794	8,381	179,099	99,753	42,092	1,969	1,500
Department of Health and Human Services	649,340	23,866	8,046	153,527	410,469	50,828	2,605
Department of Homeland Security	194,129	47,235	33,798	52,739	4,600	55,756	0
Department of the Interior	72,150	71,961	0	93	0	35	61
Department of Justice	18,820	990	0	681	2,504	14,645	0
Department of Transportation	129,156	11,883	101	75,270	14,354	20,729	6,819
Department of the Treasury	10,504	0	0	10,504	0	0	0
Department of Veterans Affairs	100,858	21,452	79,406	0	0	0	0
Other agencies							
Agency for Global Media	1,017	0	0	1,017	0	0	0
Agency for International Development	7,143	0	0	2,528	4,415	200	0
Environmental Protection Agency	22,036	4,890	0	14,235	2,760	150	0
National Aeronautics and Space Administration	1,017,783	93,272	163	900,932	20,102	3,314	0

Table 61. Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
National Science Foundation	305,498	15,536	113,250	13,138	139,207	23,367	1,000
Nuclear Regulatory Commission	3,857	0	0	1,332	2,525	0	0
Social Security Administration	2,629	54	0	2,575	0	0	0
Washington	3,262,659	266,680	717,123	584,291	993,072	674,085	27,408
Departments							
Department of Agriculture	91,050	40,700	0	1,844	43,537	2,840	2,129
Department of Commerce	47,060	27,987	0	0	18,817	55	201
Department of Defense	724,678	125,647	24,305	448,079	88,264	38,383	*
Department of Education	8,306	0	0	0	7,027	1,279	0
Department of Energy	726,769	15	672,739	10,274	43,741	0	0
Department of Health and Human Services	1,343,023	4,089	7,793	47,267	646,714	621,143	16,017
Department of Homeland Security	6,082	0	4,775	1,307	0	0	0
Department of the Interior	14,406	9,058	0	273	5,002	0	74
Department of Transportation	11,810	111	0	71	2,640	0	8,987
Department of Veterans Affairs	58,727	58,727	0	0	0	0	0
Other agencies							
Agency for International Development	9,163	0	0	0	1,500	7,663	0
Environmental Protection Agency	1,623	0	205	0	1,418	0	0
National Aeronautics and Space Administration	81,696	346	0	68,266	12,448	636	0
National Science Foundation	130,948	0	0	6,898	121,964	2,086	0
Nuclear Regulatory Commission	7,319	0	7,306	12	0	0	0
West Virginia	298,466	53,617	0	125,300	94,200	17,581	7,768
Departments							
Department of Agriculture	40,739	26,865	0	230	13,467	125	52
Department of Commerce	426	0	0	284	143	0	0
Department of Defense	116,306	3,778	0	107,678	3,049	1,801	0
Department of Energy	31,136	1	0	11,183	19,614	338	0
Department of Health and Human Services	75,359	19,242	0	2,676	51,348	0	2,093
Department of the Interior	3,117	2,383	0	0	706	0	27
Department of Justice	579	0	0	0	579	0	0
Department of Transportation	1,471	0	0	0	0	0	1,471
Department of Veterans Affairs	1,348	1,348	0	0	0	0	0
Other agencies							
Appalachian Regional Commission	18	0	0	18	0	0	0
National Aeronautics and Space Administration	3,564	0	0	2,263	1,300	0	0
National Science Foundation	24,258	0	0	823	3,993	15,317	4,125

Table 61. Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Nuclear Regulatory Commission	144	0	0	144	0	0	0
Wisconsin	1,140,823	128,839	22,657	81,733	836,522	53,074	17,998
Departments							
Department of Agriculture	85,991	47,127	0	1,007	35,957	1,712	187
Department of Commerce	8,372	0	0	928	7,444	0	0
Department of Defense	178,020	52,392	22,657	27,756	65,139	10,076	0
Department of Education	3,483	0	0	0	3,008	475	0
Department of Energy	123,100	0	0	25,475	92,625	0	5,000
Department of Health and Human Services	586,200	0	0	23,840	513,358	37,952	11,049
Department of Homeland Security	4	0	0	4	0	0	0
Department of the Interior	6,723	6,669	0	0	19	0	34
Department of Justice	120	0	0	0	120	0	0
Department of Transportation	2,462	4	0	428	304	0	1,727
Department of Veterans Affairs	22,645	22,645	0	0	0	0	0
Other agencies							
Environmental Protection Agency	3,332	0	0	0	3,332	0	0
National Aeronautics and Space Administration	19,155	3	0	799	18,353	0	0
National Science Foundation	95,633	0	0	1,496	91,278	2,860	0
Nuclear Regulatory Commission	500	0	0	0	500	0	0
Social Security Administration	5,084	0	0	0	5,084	0	0
Wyoming	111,223	12,676	0	5,929	88,524	227	3,867
Departments							
Department of Agriculture	4,299	0	0	650	3,197	175	277
Department of Commerce	536	0	0	0	536	0	0
Department of Defense	1,062	36	0	973	0	52	0
Department of Energy	60,251	0	0	2,007	58,243	0	0
Department of Health and Human Services	10,335	0	0	835	8,914	0	586
Department of Homeland Security	190	0	0	190	0	0	0
Department of the Interior	12,895	12,639	0	0	230	0	26
Department of Transportation	3,731	0	0	753	0	0	2,978
Other agencies							
National Aeronautics and Space Administration	1,668	0	0	500	1,168	0	0
National Science Foundation	16,255	0	0	20	16,235	0	0
Outlying areas	565,881	359,647	0	97,916	96,317	1,034	10,967
Departments							
Department of Agriculture	24,668	5,247	0	1,082	17,739	517	83

Table 61. Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Commerce	4,190	93	0	80	3,933	84	0
Department of Defense	448,376	353,337	0	91,400	3,634	5	0
Department of Health and Human Services	52,109	0	0	276	46,758	375	4,700
Department of Homeland Security	504	0	0	5	500	0	0
Department of the Interior	5,953	480	0	0	439	0	5,034
Department of Transportation	1,287	0	0	137	0	0	1,150
Department of Veterans Affairs	491	491	0	0	0	0	0
Other agencies							
Agency for Global Media	3,535	0	0	3,535	0	0	0
National Aeronautics and Space Administration	848	0	0	261	533	54	0
National Science Foundation	23,420	0	0	1,140	22,280	0	0
Nuclear Regulatory Commission	500	0	0	0	500	0	0
American Samoa	2,392	0	0	0	2,392	0	0
Departments							
Department of Agriculture	2,024	0	0	0	2,024	0	0
Other agencies							
National Science Foundation	368	0	0	0	368	0	0
Guam	9,367	0	0	247	9,037	0	83
Departments							
Department of Agriculture	2,973	0	0	0	2,890	0	83
Department of Health and Human Services	2,220	0	0	0	2,220	0	0
Other agencies							
National Science Foundation	4,174	0	0	247	3,927	0	0
Northern Mariana Islands	2,085	0	0	69	2,016	0	0
Departments							
Department of Agriculture	2,049	0	0	32	2,016	0	0
Department of Defense	36	0	0	36	0	0	0
Puerto Rico	90,285	6,310	0	2,566	74,491	1,034	5,884
Departments							
Department of Agriculture	13,176	5,247	0	1,050	6,362	517	0
Department of Commerce	2,835	93	0	80	2,579	84	0
Department of Defense	3,339	0	0	1	3,334	5	0
Department of Health and Human Services	49,443	0	0	276	44,092	375	4,700
Department of Homeland Security	504	0	0	5	500	0	0
Department of the Interior	758	480	0	0	244	0	34
Department of Transportation	1,150	0	0	0	0	0	1,150

Table 61. Federal obligations for research and experimental development, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	United States and U.S. territories			
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Veterans Affairs	491	491	0	0	0	0	0
Other agencies							
National Aeronautics and Space Administration	848	0	0	261	533	54	0
National Science Foundation	17,241	0	0	893	16,348	0	0
Nuclear Regulatory Commission	500	0	0	0	500	0	0
U.S. Virgin Islands	4,572	0	0	1	4,571	0	0
Departments							
Department of Agriculture	2,337	0	0	0	2,337	0	0
Department of Defense	151	0	0	1	150	0	0
Department of Health and Human Services	446	0	0	0	446	0	0
Other agencies							
National Science Foundation	1,637	0	0	0	1,637	0	0
Other areas ^c	457,180	353,337	0	95,034	3,809	0	5,000
Departments							
Department of Agriculture	2,109	0	0	0	2,109	0	0
Department of Commerce	1,355	0	0	0	1,355	0	0
Department of Defense	444,849	353,337	0	91,362	150	0	0
Department of the Interior	5,195	0	0	0	195	0	5,000
Department of Transportation	137	0	0	137	0	0	0
Other agencies							
Agency for Global Media	3,535	0	0	3,535	0	0	0
Offices abroad ^d	108,867	35,369	4,247	51,401	4,037	13,813	0
Departments							
Department of Defense	98,050	33,405	4,247	50,721	15	9,663	0
Department of Energy	351	0	0	1	350	0	0
Department of Health and Human Services	1,964	1,964	0	0	0	0	0
Department of Homeland Security	596	0	0	596	0	0	0
Other agencies							
Agency for International Development	7,822	0	0	0	3,672	4,150	0
Environmental Protection Agency	82	0	0	82	0	0	0
Undistributed ^e	5,492,406	5,313,154	2,281	159,023	17,947	0	0
Departments							
Department of Defense	5,492,406	5,313,154	2,281	159,023	17,947	0	0

* = amount greater than \$0 but less than \$500.

FFRDC = federally funded research and development center.

^a Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, as well as actual federal performance.

^b Higher education includes both public and private institutions as well as University Affiliated Research Centers.

^c Other areas includes Baker Island, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Navassa Island, Palmyra Atoll, and Wake Island.

^d Offices abroad includes R&D performed or administered in foreign countries by the U.S. government.

^e Undistributed includes Department of Defense (DOD) obligations for which the location of performance is not reported.

Note(s):

Because of rounding, detail may not add to total. Geographic distribution of DOD development funding to businesses reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 62. Federal obligations for R&D plant, by state or location and agency: FY 2024

(Dollars in thousands)

State or location	Total	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
All locations	5,210,270	3,687	910,753	234,675	2,914,704	8,683	37,156	4,800	389,427	61,117	507,471	137,797
Alabama	52,025	0	0	15,784	0	0	557	0	0	5,386	1,111	29,187
Alaska	21,841	0	20,481	0	0	0	0	0	0	0	1,359	0
Arizona	53,445	0	21,714	0	0	0	0	0	0	0	31,354	377
Arkansas	4,633	0	0	0	0	0	11	0	2,156	0	2,349	117
California	712,634	6	7,303	51,955	604,523	254	49	0	8,069	814	39,208	453
Colorado	128,422	0	41,718	35	57,630	2,416	0	0	0	8	26,615	0
Connecticut	3,787	501	0	0	0	0	0	0	0	0	3,286	0
Delaware	2,692	1,020	0	0	0	0	0	0	0	0	1,672	0
District of Columbia	48,095	1,444	282	0	43,758	0	191	0	0	38	2,382	0
Florida	60,759	0	30,218	6,459	0	14	91	231	7,991	12,881	2,872	0
Georgia	10,368	0	0	0	0	87	353	170	4,000	791	4,176	790
Hawaii	15,683	0	14,729	0	0	0	0	0	0	0	954	0
Idaho	575,550	0	0	0	572,898	0	0	0	0	0	733	1,919
Illinois	479,868	0	128	8,847	454,270	0	7,949	0	0	383	8,034	256
Indiana	362	0	0	0	0	0	0	0	0	0	362	0
Iowa	11,323	0	0	0	10,475	0	0	0	0	0	848	0
Kansas	795	0	0	0	0	0	0	0	0	93	702	0
Kentucky	7,607	0	0	0	0	0	0	0	7,548	0	59	0
Louisiana	64,949	0	52,050	0	0	0	11	0	7,168	2,511	3,163	45
Maine	474	0	0	0	0	0	0	0	0	0	167	306
Maryland	634,325	0	208,302	28,497	223	1	39	0	294,706	140	57,139	45,276
Massachusetts	19,303	0	21	0	0	0	16	0	15,421	0	3,845	0
Michigan	14,195	0	642	0	0	0	16	0	0	25	13,511	0
Minnesota	1,119	0	0	0	0	0	0	241	0	0	878	0
Mississippi	52,225	0	20,671	0	0	0	0	0	8,000	0	23,554	0
Missouri	2,635	0	0	0	1,589	0	11	0	0	0	999	36
Montana	35	0	0	0	0	0	0	0	0	0	0	35
Nebraska	25,016	0	0	0	0	0	16	0	0	0	0	25,000
Nevada	230,180	0	0	0	227,506	73	0	0	0	636	1,770	196
New Hampshire	4,197	0	4,146	0	0	0	39	0	0	0	12	0
New Jersey	47,584	0	0	0	26,000	5,410	14,145	61	0	0	1,938	30
New Mexico	147,802	0	0	14,765	131,644	4	11	0	0	0	1,059	320
New York	204,720	59	2	5,898	133,220	0	27	0	15,118	0	49,361	1,036
North Carolina	7,313	0	0	0	0	0	62	2,403	2,402	0	2,237	208
North Dakota	2,453	0	0	0	0	0	16	0	0	0	236	2,200
Ohio	97,462	0	0	2,042	0	0	11	1,091	8,000	4,480	81,838	0
Oklahoma	14,973	0	0	0	0	0	16	139	0	12,762	860	1,195

Table 62. Federal obligations for R&D plant, by state or location and agency: FY 2024

(Dollars in thousands)

State or location	Total	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
Oregon	17,120	0	14,171	0	0	0	0	252	0	0	2,697	0
Pennsylvania	30,967	0	0	0	9,272	0	609	0	0	0	21,087	0
Rhode Island	205,190	0	199,590	5,389	0	0	0	211	0	0	0	0
South Carolina	23,374	0	12,742	0	2,455	0	22	0	0	0	8,156	0
South Dakota	4,064	0	0	0	3,079	*	0	0	0	0	985	0
Tennessee	619,412	0	40,000	2,949	570,824	0	11	0	0	399	5,230	0
Texas	130,754	0	42,300	0	0	123	804	0	0	0	84,646	2,881
Utah	1,361	0	0	0	12	0	0	0	0	0	1,349	0
Vermont	0	0	0	0	0	0	0	0	0	0	0	0
Virginia	166,538	658	4,930	92,053	38,803	301	8,622	0	0	19,768	1,402	0
Washington	54,341	0	23,420	0	26,523	0	3,450	0	0	0	948	0
West Virginia	101,534	0	101,193	0	0	0	0	0	0	0	339	3
Wisconsin	33,484	0	0	0	0	0	0	0	0	0	7,726	25,758
Wyoming	52,107	0	50,000	0	0	0	0	0	0	0	2,107	0
Outlying areas	9,175	0	0	0	0	0	0	0	8,848	0	154	173
American Samoa	0	0	0	0	0	0	0	0	0	0	0	0
Guam	0	0	0	0	0	0	0	0	0	0	0	0
Northern Mariana Islands	0	0	0	0	0	0	0	0	0	0	0	0
Puerto Rico	9,175	0	0	0	0	0	0	0	8,848	0	154	173
U.S. Virgin Islands	0	0	0	0	0	0	0	0	0	0	0	0
Other areas ^a	0	0	0	0	0	0	0	0	0	0	0	0
Offices abroad ^b	0	0	0	0	0	0	0	0	0	0	0	0
Undistributed ^c	0	0	0	0	0	0	0	0	0	0	0	0

* = amount greater than \$0 but less than \$500.

DHS = Department of Homeland Security; DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; DOI = Department of the Interior; DOT = Department of Transportation; EPA = Environmental Protection Agency; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = Department of Agriculture.

^a Other areas includes Baker Island, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Navassa Island, Palmyra Atoll, and Wake Island.^b Offices abroad includes R&D performed or administered in foreign countries by the U.S. government and federal obligations for R&D plant located in foreign countries.^c Undistributed includes Department of Defense (DOD) obligations for which the location of performance is not reported.**Note(s):**Because of rounding, detail may not add to total. Geographic distribution of DOD development funding to businesses reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://ncses.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://ncses.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.**Source(s):**

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 63. Department of Defense obligations for research, development, test, and evaluation, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Alabama							
Department of Defense, RDT&E	6,928,263	3,530,706	29,897	3,301,342	52,263	14,055	0
Department of Defense, R&D conduct	6,561,678	3,332,756	2,106	3,169,777	42,985	14,055	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	366,585	197,951	27,791	131,565	9,278	0	0
Alaska							
Department of Defense, RDT&E	219,803	61,790	0	138,706	16,181	3,026	100
Department of Defense, R&D conduct	210,901	58,713	0	132,881	16,181	3,026	100
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	8,902	3,077	0	5,825	0	0	0
Arizona							
Department of Defense, RDT&E	1,849,716	117,268	0	1,668,346	52,133	5,368	6,601
Department of Defense, R&D conduct	1,456,766	76,121	0	1,322,647	46,030	5,368	6,601
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	392,949	41,147	0	345,699	6,103	0	0
Arkansas							
Department of Defense, RDT&E	107,342	24,054	0	69,931	13,150	207	0
Department of Defense, R&D conduct	83,902	1,975	0	68,570	13,150	207	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	23,440	22,079	0	1,361	0	0	0
California							
Department of Defense, RDT&E	12,985,741	3,622,127	750,685	8,082,273	411,453	117,013	2,189
Department of Defense, R&D conduct	11,457,335	2,931,214	510,490	7,488,186	408,242	117,013	2,189
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	1,528,407	690,913	240,196	594,087	3,211	0	0
Colorado							
Department of Defense, RDT&E	6,807,643	125,630	17,630	6,580,855	68,093	15,435	0
Department of Defense, R&D conduct	6,376,900	72,911	16,920	6,203,541	68,093	15,435	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	430,743	52,719	710	377,314	0	0	0
Connecticut							
Department of Defense, RDT&E	1,662,409	166,597	0	1,441,474	52,922	1,416	0
Department of Defense, R&D conduct	1,138,335	9,848	0	1,074,150	52,922	1,416	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	524,074	156,749	0	367,325	0	0	0
Delaware							
Department of Defense, RDT&E	54,185	5,185	0	29,121	18,206	1,673	0

Table 63. Department of Defense obligations for research, development, test, and evaluation, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Defense, R&D conduct	53,992	5,185	0	28,928	18,206	1,673	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	193	0	0	193	0	0	0
District of Columbia							
Department of Defense, RDT&E	4,625,353	3,404,139	42,743	957,147	30,909	190,065	350
Department of Defense, R&D conduct	3,837,236	2,680,154	38,254	898,044	30,869	189,566	350
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	788,117	723,985	4,489	59,103	40	500	0
Florida							
Department of Defense, RDT&E	3,646,945	929,123	0	2,532,735	127,001	57,986	100
Department of Defense, R&D conduct	2,965,051	747,259	0	2,063,404	124,248	30,040	100
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	681,895	181,864	0	469,332	2,753	27,946	0
Georgia							
Department of Defense, RDT&E	848,548	230,857	0	375,085	229,227	13,379	0
Department of Defense, R&D conduct	646,380	156,011	0	292,126	185,652	12,591	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	202,168	74,846	0	82,959	43,575	788	0
Hawaii							
Department of Defense, RDT&E	287,732	130,542	2,164	112,767	29,066	13,194	0
Department of Defense, R&D conduct	276,640	124,646	2,164	109,476	27,160	13,194	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	11,092	5,896	0	3,291	1,905	0	0
Idaho							
Department of Defense, RDT&E	193,558	93,134	6,072	92,432	1,740	181	0
Department of Defense, R&D conduct	149,856	62,668	3,856	81,412	1,740	181	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	43,702	30,466	2,216	11,020	0	0	0
Illinois							
Department of Defense, RDT&E	707,072	352,909	1,664	212,102	131,234	9,163	0
Department of Defense, R&D conduct	624,876	297,948	1,664	184,868	131,234	9,163	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	82,196	54,961	0	27,234	0	0	0
Indiana							
Department of Defense, RDT&E	2,264,647	1,092,977	0	1,031,279	69,006	71,385	*
Department of Defense, R&D conduct	2,091,874	1,029,608	0	927,025	63,855	71,385	*

Table 63. Department of Defense obligations for research, development, test, and evaluation, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	172,774	63,368	0	104,255	5,151	0	0
Iowa							
Department of Defense, RDT&E	319,295	13,443	199	290,781	14,680	193	0
Department of Defense, R&D conduct	289,388	10,958	199	263,359	14,680	193	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	29,907	2,485	0	27,422	0	0	0
Kansas							
Department of Defense, RDT&E	79,560	4,243	1,497	22,747	51,043	30	0
Department of Defense, R&D conduct	73,779	2,904	0	19,802	51,043	30	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	5,781	1,339	1,497	2,945	0	0	0
Kentucky							
Department of Defense, RDT&E	54,559	3,690	698	35,077	14,994	100	0
Department of Defense, R&D conduct	38,134	2,188	698	20,154	14,994	100	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	16,426	1,502	0	14,923	0	0	0
Louisiana							
Department of Defense, RDT&E	116,348	1,545	400	68,157	27,505	18,741	0
Department of Defense, R&D conduct	105,166	1,365	400	57,655	27,005	18,741	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	11,181	180	0	10,501	500	0	0
Maine							
Department of Defense, RDT&E	90,868	0	0	61,529	28,657	682	0
Department of Defense, R&D conduct	82,118	0	0	59,779	21,657	682	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	8,750	0	0	1,750	7,000	0	0
Maryland							
Department of Defense, RDT&E	6,956,534	3,206,084	21,473	2,111,821	1,135,757	480,641	758
Department of Defense, R&D conduct	5,761,291	2,697,407	21,473	1,551,278	1,009,734	480,641	758
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	1,195,243	508,677	0	560,543	126,023	0	0
Massachusetts							
Department of Defense, RDT&E	4,838,802	354,747	993,781	2,952,683	302,102	235,455	34
Department of Defense, R&D conduct	4,360,371	238,292	928,756	2,715,427	291,785	186,111	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	478,432	116,455	65,025	237,256	10,317	49,345	34

Table 63. Department of Defense obligations for research, development, test, and evaluation, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Michigan							
Department of Defense, RDT&E	1,167,770	175,176	0	856,183	85,542	50,869	0
Department of Defense, R&D conduct	943,426	145,619	0	676,806	85,542	35,460	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	224,344	29,557	0	179,377	0	15,409	0
Minnesota							
Department of Defense, RDT&E	356,035	86,990	0	186,172	45,600	37,274	0
Department of Defense, R&D conduct	329,592	86,985	0	159,734	45,600	37,274	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	26,442	4	0	26,438	0	0	0
Mississippi							
Department of Defense, RDT&E	165,530	106,293	0	50,338	8,713	185	0
Department of Defense, R&D conduct	152,860	101,822	0	47,317	3,535	185	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	12,670	4,471	0	3,021	5,178	0	0
Missouri							
Department of Defense, RDT&E	1,311,228	49,756	1,610	1,226,103	26,934	6,825	0
Department of Defense, R&D conduct	1,061,605	38,791	0	989,055	26,934	6,825	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	249,622	10,965	1,610	237,048	0	0	0
Montana							
Department of Defense, RDT&E	119,846	0	0	29,344	90,480	22	0
Department of Defense, R&D conduct	84,375	0	0	5,282	79,071	22	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	35,470	0	0	24,061	11,409	0	0
Nebraska							
Department of Defense, RDT&E	135,433	61,507	0	48,121	22,680	3,124	0
Department of Defense, R&D conduct	40,364	11,100	0	7,211	22,030	23	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	95,068	50,408	0	40,910	650	3,101	0
Nevada							
Department of Defense, RDT&E	255,877	6,960	0	241,313	7,603	0	0
Department of Defense, R&D conduct	240,444	6,858	0	225,983	7,603	0	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	15,432	103	0	15,330	0	0	0
New Hampshire							
Department of Defense, RDT&E	345,973	5,952	0	324,259	15,556	206	0

Table 63. Department of Defense obligations for research, development, test, and evaluation, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Defense, R&D conduct	266,883	5,773	0	245,347	15,556	206	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	79,091	179	0	78,912	0	0	0
New Jersey							
Department of Defense, RDT&E	1,252,481	364,893	70,465	735,914	57,836	23,349	23
Department of Defense, R&D conduct	1,060,589	296,290	0	684,592	56,336	23,349	23
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	191,891	68,603	70,465	51,323	1,500	0	0
New Mexico							
Department of Defense, RDT&E	1,544,045	461,685	475,825	561,460	43,417	1,659	0
Department of Defense, R&D conduct	1,362,357	420,315	369,479	528,469	42,435	1,659	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	181,688	41,370	106,345	32,991	982	0	0
New York							
Department of Defense, RDT&E	1,235,259	92,029	4,200	821,014	207,781	110,231	4
Department of Defense, R&D conduct	958,520	48,286	4,200	588,018	207,781	110,231	4
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	276,739	43,742	0	232,996	0	0	0
North Carolina							
Department of Defense, RDT&E	447,622	36,258	0	272,031	111,051	28,282	0
Department of Defense, R&D conduct	350,435	29,252	0	181,850	111,051	28,282	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	97,187	7,006	0	90,181	0	0	0
North Dakota							
Department of Defense, RDT&E	39,313	984	0	28,840	5,950	40	3,500
Department of Defense, R&D conduct	39,313	984	0	28,840	5,950	40	3,500
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	*	0	0	*	0	0	0
Ohio							
Department of Defense, RDT&E	9,149,817	5,261,393	6,634	3,270,694	220,663	390,432	1
Department of Defense, R&D conduct	8,700,886	5,191,402	6,404	2,893,115	219,532	390,432	1
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	448,931	69,991	230	377,579	1,131	0	0
Oklahoma							
Department of Defense, RDT&E	997,694	172,530	0	813,888	9,936	1,340	0
Department of Defense, R&D conduct	210,647	111,624	0	87,747	9,936	1,340	0

Table 63. Department of Defense obligations for research, development, test, and evaluation, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	787,047	60,907	0	726,140	0	0	0
Oregon							
Department of Defense, RDT&E	73,883	1,860	0	46,106	24,736	1,181	0
Department of Defense, R&D conduct	73,350	1,860	0	45,573	24,736	1,181	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	533	0	0	533	0	0	0
Pennsylvania							
Department of Defense, RDT&E	1,996,362	385,944	48,065	1,048,625	424,152	89,576	1
Department of Defense, R&D conduct	1,581,039	317,830	47,565	760,997	365,794	88,854	1
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	415,323	68,114	500	287,629	58,359	722	0
Rhode Island							
Department of Defense, RDT&E	724,067	386,285	0	290,165	45,065	2,553	0
Department of Defense, R&D conduct	565,645	309,474	0	222,346	31,273	2,553	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	158,422	76,811	0	67,820	13,791	0	0
South Carolina							
Department of Defense, RDT&E	1,528,437	183,926	8,194	1,008,127	35,917	292,273	0
Department of Defense, R&D conduct	1,434,473	133,868	8,054	965,569	35,917	291,065	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	93,963	50,058	140	42,558	0	1,208	0
South Dakota							
Department of Defense, RDT&E	20,147	245	0	19,846	0	54	2
Department of Defense, R&D conduct	19,586	245	0	19,285	0	54	2
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	561	0	0	561	0	0	0
Tennessee							
Department of Defense, RDT&E	947,084	757,773	24,625	93,717	67,400	3,486	85
Department of Defense, R&D conduct	904,251	730,986	23,501	78,793	67,400	3,486	85
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	42,833	26,787	1,124	14,923	0	0	0
Texas							
Department of Defense, RDT&E	6,947,164	973,892	24,765	5,443,782	472,695	32,029	0
Department of Defense, R&D conduct	4,427,287	89,544	24,433	3,826,989	456,295	30,026	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	2,519,877	884,348	332	1,616,793	16,401	2,003	0

Table 63. Department of Defense obligations for research, development, test, and evaluation, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Utah							
Department of Defense, RDT&E	4,710,571	295,979	0	4,219,522	190,647	4,423	0
Department of Defense, R&D conduct	4,523,085	225,934	0	4,122,818	169,911	4,423	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	187,485	70,045	0	96,704	20,736	0	0
Vermont							
Department of Defense, RDT&E	57,294	0	0	48,455	8,691	148	0
Department of Defense, R&D conduct	57,228	0	0	48,389	8,691	148	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	66	0	0	66	0	0	0
Virginia							
Department of Defense, RDT&E	13,324,050	2,064,643	1,132,756	9,866,318	174,772	84,344	1,218
Department of Defense, R&D conduct	12,130,293	1,847,354	1,074,541	9,025,580	97,463	84,138	1,218
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	1,193,757	217,289	58,215	840,738	77,309	206	0
Washington							
Department of Defense, RDT&E	815,087	162,648	32,591	485,829	95,636	38,383	*
Department of Defense, R&D conduct	724,678	125,647	24,305	448,079	88,264	38,383	*
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	90,409	37,001	8,286	37,750	7,372	0	0
West Virginia							
Department of Defense, RDT&E	127,060	7,011	0	115,199	3,049	1,801	0
Department of Defense, R&D conduct	116,306	3,778	0	107,678	3,049	1,801	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	10,753	3,232	0	7,521	0	0	0
Wisconsin							
Department of Defense, RDT&E	178,020	52,392	22,657	27,756	65,139	10,076	0
Department of Defense, R&D conduct	178,020	52,392	22,657	27,756	65,139	10,076	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	0	0	0	0	0	0	0
Wyoming							
Department of Defense, RDT&E	3,818	36	0	3,729	0	52	0
Department of Defense, R&D conduct	1,062	36	0	973	0	52	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	2,756	0	0	2,756	0	0	0
Outlying areas							
Department of Defense, RDT&E	449,715	353,337	0	92,739	3,634	5	0

Table 63. Department of Defense obligations for research, development, test, and evaluation, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Defense, R&D conduct	448,376	353,337	0	91,400	3,634	5	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	1,339	0	0	1,339	0	0	0
American Samoa							
Department of Defense, RDT&E	0	0	0	0	0	0	0
Department of Defense, R&D conduct	0	0	0	0	0	0	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	0	0	0	0	0	0	0
Guam							
Department of Defense, RDT&E	0	0	0	0	0	0	0
Department of Defense, R&D conduct	0	0	0	0	0	0	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	0	0	0	0	0	0	0
Northern Mariana Islands							
Department of Defense, RDT&E	36	0	0	36	0	0	0
Department of Defense, R&D conduct	36	0	0	36	0	0	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	0	0	0	0	0	0	0
Puerto Rico							
Department of Defense, RDT&E	3,339	0	0	1	3,334	5	0
Department of Defense, R&D conduct	3,339	0	0	1	3,334	5	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	0	0	0	0	0	0	0
U.S. Virgin Islands							
Department of Defense, RDT&E	151	0	0	1	150	0	0
Department of Defense, R&D conduct	151	0	0	1	150	0	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	0	0	0	0	0	0	0
Other areas ^d							
Department of Defense, RDT&E	446,188	353,337	0	92,700	150	0	0
Department of Defense, R&D conduct	444,849	353,337	0	91,362	150	0	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	1,339	0	0	1,339	0	0	0
Offices abroad ^e							
Department of Defense, RDT&E	104,667	38,894	4,247	51,849	15	9,663	0
Department of Defense, R&D conduct	98,050	33,405	4,247	50,721	15	9,663	0

Table 63. Department of Defense obligations for research, development, test, and evaluation, by state or location, agency, and performer: FY 2024

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	6,616	5,489	0	1,127	0	0	0
Undistributed ^f							
Department of Defense, RDT&E	37,601,743	5,776,355	2,306	31,805,134	17,947	0	0
Department of Defense, R&D conduct	5,492,406	5,313,154	2,281	159,023	17,947	0	0
Department of Defense, Operational System Development and Software and Digital Technology Pilot Programs ^c	32,109,337	463,201	25	31,646,111	0	0	0

* = amount greater than \$0 but less than \$500.

FFRDC = federally funded research and development center; RDT&E = research, development, test, and evaluation.

^a Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, and actual federal performance.

^b Higher education includes both public and private institutions as well as University Affiliated Research Centers.

^c Funding for Department of Defense's (DOD's) Operational System Development (Budget Activity 7) was first reported as a separate category for volume 66. As of volume 73, it was combined with funding for DOD's Software and Digital Technology Pilot Programs (Budget Activity 8).

^d Other areas includes Baker Island, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Navassa Island, Palmyra Atoll, and Wake Island.

^e Offices abroad includes both R&D and RDT&E performed or administered in foreign countries by the U.S. government.

^f Undistributed includes DOD obligations for which the location of performance is not reported.

Note(s):

Because of rounding, detail may not add to total. Geographic distribution of DOD development funding to businesses reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D. For additional notes associated with the agencies listed in this table, see [technical table A-2 at https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables).

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2024–25.

Table 64. Federal outlays for research, development, and R&D plant, by agency: FYs 2005–15

(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
All agencies	121,230	118,909	123,998	125,125	129,679	137,523	135,753	131,030	129,084	130,720	130,495
Departments											
Department of Agriculture	2,281	2,370	2,434	2,402	2,304	2,435	2,420	2,360	2,256	2,340	2,339
Agricultural Marketing Service	9	6	6	4	4	4	4	4	5	6	7
Agricultural Research Service	1,249	1,306	1,294	1,275	1,177	1,256	1,264	1,153	1,086	1,035	1,086
Animal and Plant Health Inspection Service	24	26	26	28	25	26	25	32	31	37	34
Economic Research Service	75	73	91	78	80	86	88	80	79	77	74
Foreign Agricultural Service	2	1	1	*	*	*	1	1	1	*	1
Forest Service	343	355	360	359	368	433	370	365	350	337	344
Grain Inspection, Packers, and Stockyards Administration	7	7	7	7	7	6	7	7	6	8	8
National Agricultural Statistics Service	6	7	7	7	7	7	7	7	7	9	9
National Institute of Food and Agriculture	563	586	622	639	634	612	654	707	688	824	772
Rural Business-Cooperative Service	4	4	21	4	3	4	1	4	3	6	4
Department of Commerce	747	710	1,059	1,166	1,252	1,409	1,590	1,402	1,262	1,447	1,417
Census Bureau	23	22	22	25	29	47	59	102	131	201	142
Economic Development Administration	*	*	1	21	28	34	16	NA	NA	NA	NA
National Institute of Standards and Technology	478	467	457	493	501	637	742	720	576	604	671
National Oceanic and Atmospheric Administration	242	216	574	627	687	685	766	573	547	634	593
National Telecommunications and Information Administration	3	5	5	*	7	7	7	7	8	8	11
Department of Defense	64,522	63,818	68,709	68,862	66,971	67,763	72,659	65,392	65,107	63,646	62,251
Defense Advanced Research Projects Agency	na	na	na	na	na	na	2,889	2,833	2,692	2,808	2,832
Defense agencies and activities	17,134	14,005	14,723	15,560	15,607	15,210	na	na	na	na	na
Department of the Air Force	20,951	21,446	24,498	24,214	23,569	26,235	25,970	25,178	24,858	23,316	23,442
Department of the Army	9,847	10,662	10,360	11,057	10,125	9,210	8,125	6,688	7,817	7,653	7,306
Department of the Navy	16,270	17,443	18,935	17,851	17,492	16,924	15,362	14,365	15,506	15,457	14,693
Operational Test and Evaluation, Director	320	262	193	180	179	184	NA	NA	NA	NA	NA
Other defense agencies	na	na	na	na	na	na	20,313	16,327	14,234	14,413	13,978
Department of Education	264	255	271	287	312	322	106	102	97	345	318
Department of Energy	8,607	8,213	8,444	8,857	9,771	9,891	10,456	10,314	9,861	11,033	12,295
Advanced Research Projects Agency—Energy	NA	NA	NA	0	0	64	118	142	144	187	245
Bonneville Power Administration	11	11	11	14	8	13	13	14	14	16	16
Civilian Radioactive Waste Management	74	53	11	8	2	0	0	0	0	0	0
Electricity Delivery and Energy Reliability	72	108	54	89	87	83	90	101	45	73	108
Energy Efficiency and Renewable Energy	594	457	648	794	730	969	888	910	721	964	1,047
Environmental Management	50	34	32	36	13	70	67	46	9	23	24
Fossil Energy	539	386	431	325	359	364	303	298	376	442	650
National Nuclear Security Administration	3,925	3,858	3,794	3,999	3,661	3,769	4,186	4,013	3,930	4,394	4,515
Defense Programs	3,001	2,865	2,828	2,939	2,576	2,486	2,888	2,701	2,643	2,981	3,063

Table 64. Federal outlays for research, development, and R&D plant, by agency: FYs 2005–15

(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Naval Nuclear Propulsion Program	778	750	761	761	770	945	974	1,080	994	1,115	1,239
Office of Defense Nuclear Nonproliferation	145	243	205	299	315	338	324	231	294	297	213
Nuclear Energy	83	89	81	133	116	368	388	361	263	324	760
Office of Science	3,260	3,217	3,382	3,458	4,796	4,191	4,403	4,428	4,357	4,610	4,930
Department of Health and Human Services	28,862	28,799	29,261	29,268	35,296	36,610	30,459	30,876	29,431	30,564	29,624
Administration for Children and Families	39	13	12	19	14	6	9	8	3	3	3
Administration for Community Living	2	3	3	0	0	0	0	0	0	0	76
Agency for Healthcare Research and Quality	0	0	0	0	0	0	0	0	365	364	364
Agency for Toxic Substances and Disease Registry	9	9	4	4	5	3	5	1	1	1	2
Centers for Disease Control and Prevention	511	688	679	414	339	343	296	445	301	198	275
Centers for Medicare and Medicaid Services	89	62	86	70	57	54	45	34	20	34	24
Food and Drug Administration	140	140	130	138	164	201	215	337	345	372	359
Health Resources and Services Administration	53	24	24	62	56	67	37	21	37	38	42
National Institutes of Health	27,926	27,778	28,257	28,540	34,641	35,882	29,830	30,010	28,341	29,536	28,462
Office of the Secretary of Health and Human Services	25	27	24	22	20	54	20	19	19	19	18
Office of the Assistant Secretary for Planning and Evaluation	25	27	24	22	20	54	20	19	19	19	18
Substance Abuse and Mental Health Services Administration	68	54	42	0	NA	NA	NA	NA	NA	NA	NA
Department of Homeland Security	1,028	1,714	1,181	1,009	438	976	1,166	828	614	856	704
Coast Guard	11	24	24	16	21	27	22	22	22	25	26
Countering Weapons of Mass Destruction Office	NA	NA	NA	NA	NA	NA	NA	NA	NA	74	71
Science and Technology Directorate	835	1,677	1,153	993	417	949	1,144	806	592	757	607
Secret Service	1	1	1	1	NA	NA	NA	NA	NA	NA	NA
Transportation Security Administration	180	12	4	0	NA	NA	NA	NA	NA	NA	NA
Department of Housing and Urban Development	48	42	32	33	36	51	50	53	64	67	56
Department of the Interior	597	608	626	644	745	726	714	745	705	745	813
Bureau of Land Management	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16
Bureau of Ocean Energy Management	30	31	29	34	39	44	50	39	31	48	50
Bureau of Reclamation	17	11	16	15	17	13	15	12	13	14	13
Bureau of Safety and Environmental Enforcement	NA	NA	NA	NA	NA	NA	NA	15	18	18	28
Fish and Wildlife Service	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32
Geological Survey	546	561	574	586	674	661	640	673	636	649	666
National Park Service	4	4	8	9	14	8	9	5	7	15	8
Department of Justice	66	71	124	113	103	119	102	67	110	161	57
Bureau of Prisons	12	12	13	11	10	11	12	11	11	11	11
Federal Bureau of Investigation	33	34	71	26	15	30	18	8	30	10	13
Office of Justice Programs	20	25	40	76	78	78	73	49	69	140	33
Department of Labor	163	94	59	84	72	13	12	20	15	12	13
Bureau of Labor Statistics	23	23	24	24	0	NA	NA	NA	NA	NA	NA

Table 64. Federal outlays for research, development, and R&D plant, by agency: FYs 2005–15

(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Employee Benefits Security Administration	1	2	1	1	1	5	5	11	8	6	5
Employment and Training Administration	134	64	29	54	64	NA	NA	NA	NA	NA	NA
Occupational Safety and Health Administration	3	4	3	4	4	6	4	6	4	4	3
Office of the Secretary of Labor	*	*	*	0	NA	0	0	NA	NA	NA	NA
Pension Benefit Guaranty Corporation	2	2	2	2	2	3	3	3	3	3	4
Department of State	3	3	3	3	4	3	3	2	1	NA	2
Department of Transportation	412	884	775	626	544	781	786	740	681	806	719
Federal Aviation Administration	241	307	282	218	197	258	228	242	214	227	228
Federal Highway Administration	74	400	340	260	215	352	320	311	281	386	353
Federal Motor Carrier Safety Administration	7	4	13	7	7	7	7	7	7	8	8
Federal Railroad Administration	23	59	37	40	42	45	42	47	46	54	44
Federal Transit Administration	4	7	4	7	7	22	42	26	11	9	17
National Highway Traffic Safety Administration	32	75	66	59	44	65	116	83	95	93	46
Office of the Secretary of Transportation	29	16	16	16	20	20	18	14	16	14	11
Pipeline and Hazardous Materials Safety Administration	2	15	16	13	4	8	10	8	7	16	12
Research and Innovative Technology Administration	1	2	2	7	9	4	4	3	5	NA	NA
Department of the Treasury	66	65	64	65	69	69	78	76	74	76	67
Bureau of Engraving and Printing	6	6	5	5	3	1	6	5	9	9	9
Internal Revenue Service	58	55	55	60	65	66	71	69	65	64	54
Mint	2	4	4	1	1	1	1	2	*	3	3
Department of Veterans Affairs	402	412	446	480	510	581	559	615	639	608	612
Other agencies											
Agency for Global Media	*	*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agency for International Development	260	255	234	124	156	169	119	77	125	60	212
Appalachian Regional Commission	1	1	1	1	1	1	*	1	*	1	1
Consumer Product Safety Commission	NA	NA	NA	NA	NA	NA	NA	2	1	2	2
Environmental Protection Agency	*	*	*	532	553	595	582	581	530	538	521
Federal Communications Commission	9	8	8	7	7	4	4	4	5	7	5
Federal Trade Commission	1	2	2	3	2	3	3	3	3	3	2
Library of Congress	6	7	12	1	1	1	1	1	1	1	1
National Aeronautics and Space Administration	8,657	6,210	5,930	6,072	5,815	8,881	7,724	10,596	11,331	11,262	12,360
National Archives and Records Administration	*	*	*	5	5	5	3	2	1	1	1
National Science Foundation	4,025	4,102	4,022	4,205	4,370	5,758	5,748	5,740	5,703	5,666	5,474
Nuclear Regulatory Commission	57	59	59	42	74	81	99	81	85	91	71
Patient-Centered Outcomes Research Trust Fund	na	na	na	na	na	na	9	41	74	94	244
Postal Service	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28
Smithsonian Institution	110	139	172	182	200	217	249	245	251	231	229
Social Security Administration	35	68	68	54	68	63	53	65	57	60	59

* = amount greater than \$0 but less than \$500,000. na = not applicable; data were not collected at this level of detail for this agency or subagency. NA = not available; agency did not provide data.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had outlays in variables represented by this table appear in the table. FYs 2009 and 2010 outlays include additional funding provided by the American Recovery and Reinvestment Act of 2009. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 65. Federal outlays for research, development, and R&D plant, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
All agencies	111,780	113,223	120,916	128,141	149,706	178,360	183,108	173,861	183,953	185,241
Departments										
Department of Agriculture	2,432	2,345	2,347	2,547	2,534	2,704	2,958	3,170	3,483	3,270
Agricultural Marketing Service	7	7	7	8	7	7	5	6	14	9
Agricultural Research Service	1,124	1,155	1,124	1,189	1,330	1,478	1,594	1,757	1,902	1,764
Animal and Plant Health Inspection Service	39	39	39	39	40	42	45	47	43	42
Economic Research Service	94	82	87	82	82	85	88	93	91	91
Foreign Agricultural Service	*	*	0	0	0	0	0	NA	NA	NA
Forest Service	349	343	343	333	326	302	306	321	330	338
Grain Inspection, Packers, and Stockyards Administration	8	*	na	na	na	na	na	na	na	na
National Agricultural Statistics Service	9	9	9	9	9	9	11	11	8	9
National Institute of Food and Agriculture	798	706	735	884	738	779	908	911	1,000	997
Natural Resources Conservation Service	NA	NA	NA	NA	NA	1	1	23	96	21
Rural Business-Cooperative Service	4	3	3	3	3	0	0	NA	NA	NA
Department of Commerce	1,542	1,710	1,707	1,908	1,808	1,953	2,336	2,896	3,034	5,175
Census Bureau	170	220	110	96	111	109	202	284	360	360
National Institute of Standards and Technology	706	709	745	836	774	890	992	1,007	1,132	2,782
National Oceanic and Atmospheric Administration	655	773	844	967	915	944	1,130	1,598	1,398	1,615
National Telecommunications and Information Administration	10	8	7	9	8	10	13	7	145	418
Department of Defense	42,868	42,212	45,238	48,489	56,339	63,487	68,968	75,747	85,835	88,088
Defense Advanced Research Projects Agency	2,871	2,877	2,996	3,254	3,466	3,508	3,703	4,036	4,214	4,146
Defense Health Agency	NA	NA	NA	NA	2,016	2,427	2,112	2,248	3,054	2,786
Department of the Air Force	7,260	7,600	11,194	12,035	13,580	15,119	17,418	20,731	25,088	28,137
Air Force	7,260	7,600	11,194	12,035	9,243	10,726	13,099	13,653	16,068	18,333
Space Force	na	na	na	na	4,338	4,393	4,319	7,077	9,020	9,803
Department of the Army	6,805	7,631	7,011	9,293	10,868	11,440	11,284	11,516	10,145	13,060
Department of the Navy	15,195	14,427	12,561	11,029	15,072	16,298	16,450	19,659	23,467	21,951
Other defense agencies	10,737	9,676	11,476	12,877	11,337	14,696	18,000	17,557	19,867	18,008
Department of Education	212	246	235	226	227	214	285	327	361	423
Department of Energy	12,853	13,187	16,672	15,164	12,600	14,593	15,068	15,839	17,548	17,461
Advanced Research Projects Agency—Energy	238	269	251	247	270	308	339	399	391	400
Bonneville Power Administration	16	14	NA	NA	NA	NA	NA	NA	NA	NA
Electricity Delivery and Energy Reliability	92	133	104	144	142	146	111	114	132	162
Energy Efficiency and Renewable Energy	1,145	1,284	1,549	1,461	1,502	1,552	1,469	1,453	1,630	1,508
Environmental Management	23	29	38	29	31	23	22	43	39	39
Fossil Energy	624	636	683	682	608	708	629	845	928	1,037
National Nuclear Security Administration	4,806	4,926	4,324	5,752	3,987	4,702	4,630	4,767	5,479	5,267
Defense Programs	3,082	3,256	2,726	3,635	2,326	2,881	3,245	3,367	3,729	3,548

Table 65. Federal outlays for research, development, and R&D plant, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
Naval Nuclear Propulsion Program	1,375	1,420	1,282	1,789	1,360	1,471	1,018	971	1,186	1,153
Office of Defense Nuclear Nonproliferation	349	249	316	329	301	349	366	429	564	566
Nuclear Energy	833	811	846	1,110	1	455	866	493	1,129	964
Office of Cybersecurity, Energy Security, and Emergency Response	na	na	0	36	51	31	*	66	49	71
Office of Science	5,077	5,086	8,878	5,703	6,008	6,669	7,003	7,658	7,771	8,015
Department of Health and Human Services	29,663	31,386	33,219	35,427	54,910	73,019	69,148	51,398	49,044	46,358
Administration for Children and Families	3	2	1	2	2	5	4	7	13	12
Administration for Community Living	83	83	83	83	92	107	107	113	113	112
Advanced Research Projects Agency for Health	NA	NA	NA	NA	NA	NA	NA	0	460	216
Agency for Healthcare Research and Quality	334	324	334	338	338	338	350	374	374	374
Agency for Toxic Substances and Disease Registry	2	3	3	7	*	11	12	0	3	3
Biomedical Advanced Research and Development Authority	NA	NA	NA	281	18,737	34,041	28,414	5,974	1,491	819
Centers for Disease Control and Prevention	198	208	200	187	218	299	232	198	172	158
Centers for Medicare and Medicaid Services	30	30	231	6	31	36	270	4	4	5
Food and Drug Administration	486	464	456	470	443	563	536	678	700	637
Health Resources and Services Administration	42	46	34	27	25	58	40	74	86	80
National Institutes of Health	28,468	30,209	31,860	34,009	35,008	37,545	39,148	43,943	45,594	43,904
Office of the Secretary of Health and Human Services	18	17	17	17	16	17	36	34	35	37
Office of the Assistant Secretary for Planning and Evaluation	18	17	17	17	16	17	36	34	35	37
Department of Homeland Security	732	1,026	1,077	1,069	936	566	567	590	553	491
Coast Guard	22	22	18	23	5	10	7	7	11	10
Countering Weapons of Mass Destruction Office	63	69	65	81	85	87	66	67	60	40
Cybersecurity and Infrastructure Security Agency	na	na	7	13	8	13	6	8	0	1
Science and Technology Directorate	646	935	966	929	806	423	470	475	442	417
Secret Service	NA	NA	1	2	10	3	1	*	4	4
Transportation Security Administration	NA	NA	20	21	23	30	18	33	36	19
Department of Housing and Urban Development	75	71	71	63	NA	NA	NA	NA	NA	NA
Department of the Interior	865	864	754	804	827	876	929	523	503	456
Bureau of Indian Affairs	NA	NA	5	5	*	5	5	5	5	5
Bureau of Land Management	18	18	21	21	21	9	12	13	17	15
Bureau of Ocean Energy Management	73	73	77	73	73	70	66	0	NA	NA
Bureau of Reclamation	22	29	25	24	29	40	29	34	33	34
Bureau of Safety and Environmental Enforcement	34	23	8	15	11	14	19	16	16	14
Fish and Wildlife Service	32	24	24	24	26	23	35	41	48	6
Geological Survey	677	688	593	640	665	691	737	409	378	377
National Park Service	9	10	1	1	1	23	25	4	5	5
Office of Surface Mining Reclamation and Enforcement	NA	NA	1	1	1	0	NA	NA	NA	NA
Department of Justice	69	24	20	20	24	19	23	34	38	39

Table 65. Federal outlays for research, development, and R&D plant, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
Bureau of Prisons	11	10	6	7	8	8	5	13	9	8
Federal Bureau of Investigation	13	2	3	1	5	4	9	6	16	21
Office of Justice Programs	45	12	11	12	11	8	9	15	13	10
Department of Labor	8	3	3	3	3	3	3	1	1	1
Employee Benefits Security Administration	3	1	1	1	1	1	1	1	1	1
Occupational Safety and Health Administration	1	2	2	2	2	2	2	NA	NA	NA
Pension Benefit Guaranty Corporation	4	0	0	NA	NA	NA	NA	NA	NA	NA
Department of State	2	2	62	62	40	64	65	56	34	0
Department of Transportation	748	716	661	707	703	689	722	889	979	1,069
Federal Aviation Administration	250	266	239	247	245	248	250	322	347	357
Federal Highway Administration	353	274	261	287	278	257	263	292	388	344
Federal Motor Carrier Safety Administration	11	12	10	7	7	3	11	13	8	13
Federal Railroad Administration	41	44	35	35	43	39	46	53	36	49
Federal Transit Administration	7	41	36	40	20	29	27	23	24	22
National Highway Traffic Safety Administration	49	55	53	64	67	60	70	77	79	84
Office of the Secretary of Transportation	19	11	16	9	24	31	46	89	80	179
Pipeline and Hazardous Materials Safety Administration	19	13	10	18	18	21	9	20	17	20
Department of the Treasury	85	10	38	49	47	54	48	53	35	64
Bureau of Engraving and Printing	19	9	38	46	46	54	48	52	35	64
Internal Revenue Service	65	0	0	0	0	NA	NA	NA	NA	NA
Mint	2	1	0	2	*	*	0	1	*	*
Department of Veterans Affairs	583	594	644	685	778	1,475	1,610	1,761	1,764	1,800
Other agencies										
Administrative Office of the U.S. Courts	7	8	7	6	5	4	1	NA	NA	NA
Agency for Global Media	NA	NA	NA	6	5	5	8	9	9	0
Agency for International Development	193	192	167	221	194	82	221	252	252	0
Appalachian Regional Commission	*	1	1	1	1	1	1	1	1	1
Consumer Product Safety Commission	2	2	1	1	*	*	*	*	*	*
Environmental Protection Agency	513	498	492	490	493	526	531	574	540	538
Federal Communications Commission	5	7	5	2	2	0	NA	NA	NA	NA
Federal Trade Commission	3	6	6	6	6	8	3	3	1	*
Library of Congress	2	2	3	2	3	3	3	3	na	na
National Aeronautics and Space Administration	12,013	10,616	10,852	13,338	10,508	11,133	12,199	11,338	11,471	10,868
National Archives and Records Administration	1	1	1	1	*	NA	NA	NA	NA	NA
National Science Foundation	5,468	5,650	5,664	5,741	5,793	5,917	6,386	7,241	7,405	8,168
Nuclear Regulatory Commission	86	67	78	75	70	77	82	69	60	55
Patient-Centered Outcomes Research Trust Fund	354	1,345	492	579	470	460	522	555	607	585
Postal Service	29	73	53	27	18	15	14	7	5	3

Table 65. Federal outlays for research, development, and R&D plant, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
RESTORE Act Centers of Excellence Research Grants Program	na	na	na	na	7	4	4	5	6	6
Smithsonian Institution	237	243	263	269	276	288	297	316	168	182
Social Security Administration	129	110	72	146	70	105	79	91	97	58
Tennessee Valley Authority	NA	6	13	10	8	17	28	111	117	85

* = amount greater than \$0 but less than \$500,000. na = not applicable; data were not collected at this level of detail for this agency or subagency. NA = not available; agency did not provide data.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had outlays in variables represented by this table appear in the table. Beginning with FY 2016, the totals reported for development outlays represent a refinement to this category by more narrowly defining it to be "experimental development." Most notably, totals for development do not include the Department of Defense (DOD) Budget Activity 7 (Operational System Development) nor Budget Activity 8 (Software and Digital Technology Pilot Programs) outlays. Those funds, previously included in DOD's development outlay totals, support the development efforts to upgrade systems that have been fielded or have received approval for full-rate production and anticipate production funding in the current or subsequent fiscal year. Therefore, the data are not directly comparable with totals reported in previous years. FYs 2020, 2021, and 2022 outlays include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 66. Federal outlays for research and development, by agency: FYs 2005–15

(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
All agencies	117,398	116,868	121,875	123,059	126,854	131,388	131,452	128,560	127,225	128,476	128,090
Departments											
Department of Agriculture	2,132	2,185	2,218	2,254	2,229	2,309	2,301	2,290	2,232	2,321	2,320
Agricultural Marketing Service	9	6	6	4	4	4	4	4	5	6	7
Agricultural Research Service	1,117	1,135	1,103	1,149	1,134	1,200	1,162	1,095	1,071	1,025	1,077
Animal and Plant Health Inspection Service	24	26	26	28	25	26	25	32	31	37	34
Economic Research Service	75	73	91	78	80	86	88	80	79	77	74
Foreign Agricultural Service	2	1	1	*	*	*	1	1	1	*	1
Forest Service	325	341	335	338	336	363	353	355	342	330	336
Grain Inspection, Packers, and Stockyards Administration	7	7	7	7	7	6	7	5	5	6	6
National Agricultural Statistics Service	6	7	7	7	7	7	7	7	7	9	9
National Institute of Food and Agriculture	563	586	622	639	634	612	654	707	688	824	772
Rural Business-Cooperative Service	4	4	21	4	3	4	1	4	3	6	4
Department of Commerce	708	664	991	1,052	1,004	1,122	1,267	1,112	1,082	1,267	1,221
Census Bureau	23	22	22	25	29	47	59	102	131	201	142
Economic Development Administration	*	*	1	2	3	7	1	NA	NA	NA	NA
National Institute of Standards and Technology	441	421	422	444	455	535	571	570	524	553	607
National Oceanic and Atmospheric Administration	240	216	541	581	511	525	629	433	419	504	461
National Telecommunications and Information Administration	3	5	5	*	7	7	7	7	8	8	11
Department of Defense	64,311	63,724	68,557	68,731	66,775	67,615	72,527	65,253	65,020	63,509	62,100
Defense Advanced Research Projects Agency	na	na	na	na	na	na	2,889	2,833	2,692	2,808	2,832
Defense agencies and activities	17,057	13,971	14,687	15,521	15,599	15,210	na	na	na	na	na
Department of the Air Force	20,915	21,407	24,483	24,122	23,458	26,106	25,855	25,043	24,790	23,205	23,323
Department of the Army	9,847	10,662	10,360	11,057	10,048	9,210	8,125	6,688	7,817	7,653	7,306
Department of the Navy	16,172	17,423	18,834	17,851	17,492	16,905	15,345	14,363	15,487	15,437	14,669
Operational Test and Evaluation, Director	320	262	193	180	179	184	NA	NA	NA	NA	NA
Other defense agencies	na	na	na	na	na	na	20,313	16,325	14,233	14,407	13,970
Department of Education	264	255	271	287	312	322	106	102	97	345	318
Department of Energy	7,760	7,433	7,793	8,108	8,546	8,986	9,685	9,599	9,302	10,364	11,303
Advanced Research Projects Agency—Energy	NA	NA	NA	0	0	64	118	142	144	187	245
Bonneville Power Administration	11	11	11	14	8	13	13	14	0	16	16
Civilian Radioactive Waste Management	74	53	11	8	2	0	0	0	0	0	0
Electricity Delivery and Energy Reliability	72	108	54	89	87	83	90	101	45	73	108
Energy Efficiency and Renewable Energy	569	431	646	729	712	915	853	910	705	960	1,043
Environmental Management	50	34	32	36	13	70	67	46	9	23	24
Fossil Energy	533	366	419	306	344	350	288	286	360	426	632
National Nuclear Security Administration	3,625	3,548	3,589	3,730	3,489	3,489	4,034	3,920	3,856	4,312	4,222
Defense Programs	2,733	2,594	2,657	2,707	2,444	2,285	2,769	2,648	2,568	2,921	2,926

Table 66. Federal outlays for research and development, by agency: FYs 2005–15

(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Naval Nuclear Propulsion Program	747	711	728	724	730	866	942	1,040	994	1,094	1,083
Office of Defense Nuclear Nonproliferation	145	243	205	299	315	338	324	231	294	297	213
Nuclear Energy	83	89	81	133	116	368	388	361	263	324	760
Office of Science	2,744	2,794	2,949	3,062	3,775	3,635	3,834	3,819	3,920	4,042	4,253
Department of Health and Human Services	28,432	28,441	29,010	29,121	35,144	34,928	30,379	30,721	29,282	30,404	29,497
Administration for Children and Families	39	13	12	19	14	6	9	8	3	3	3
Administration for Community Living	2	3	3	0	0	0	0	0	0	0	76
Agency for Healthcare Research and Quality	0	0	0	0	0	0	0	0	365	364	364
Agency for Toxic Substances and Disease Registry	9	9	4	4	5	3	5	1	1	1	2
Centers for Disease Control and Prevention	511	545	544	407	339	343	296	445	301	198	275
Centers for Medicare and Medicaid Services	89	62	86	70	57	54	45	34	20	34	24
Food and Drug Administration	137	138	125	133	159	188	206	316	323	348	336
Health Resources and Services Administration	53	24	23	62	56	66	37	20	37	38	41
National Institutes of Health	27,500	27,566	28,146	28,404	34,494	34,213	29,760	29,877	28,215	29,400	28,358
Office of the Secretary of Health and Human Services	25	27	24	22	20	54	20	19	19	19	18
Office of the Assistant Secretary for Planning and Evaluation	25	27	24	22	20	54	20	19	19	19	18
Substance Abuse and Mental Health Services Administration	68	54	42	0	NA	NA	NA	NA	NA	NA	NA
Department of Homeland Security	966	1,593	922	799	92	583	471	593	335	448	476
Coast Guard	10	23	23	15	20	26	21	21	21	24	24
Countering Weapons of Mass Destruction Office	NA	NA	NA	NA	NA	NA	NA	NA	NA	74	71
Science and Technology Directorate	775	1,556	895	783	73	557	451	573	314	351	380
Secret Service	1	1	1	1	NA	NA	NA	NA	NA	NA	NA
Transportation Security Administration	180	12	4	0	NA	NA	NA	NA	NA	NA	NA
Department of Housing and Urban Development	48	42	32	33	36	51	50	53	64	67	56
Department of the Interior	590	602	616	635	738	720	705	739	698	739	805
Bureau of Land Management	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16
Bureau of Ocean Energy Management	27	28	26	32	37	42	45	39	31	48	50
Bureau of Reclamation	13	9	9	9	13	10	11	10	10	12	10
Bureau of Safety and Environmental Enforcement	NA	NA	NA	NA	NA	NA	NA	12	14	15	23
Fish and Wildlife Service	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32
Geological Survey	546	561	574	586	674	661	640	673	636	649	666
National Park Service	4	4	8	9	14	8	9	5	7	15	8
Department of Justice	66	71	124	112	103	119	102	67	110	161	57
Bureau of Prisons	12	12	13	11	10	11	12	11	11	11	11
Federal Bureau of Investigation	33	34	71	26	15	30	18	8	30	10	13
Office of Justice Programs	20	25	40	75	78	78	73	49	69	140	33
Department of Labor	163	94	59	84	71	12	11	19	15	12	13
Bureau of Labor Statistics	23	23	24	24	0	NA	NA	NA	NA	NA	NA

Table 66. Federal outlays for research and development, by agency: FYs 2005–15

(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Employee Benefits Security Administration	1	2	1	1	1	5	5	11	8	6	5
Employment and Training Administration	134	64	29	54	64	NA	NA	NA	NA	NA	NA
Occupational Safety and Health Administration	3	4	3	3	4	5	3	5	4	4	3
Office of the Secretary of Labor	*	*	*	0	NA	0	0	NA	NA	NA	NA
Pension Benefit Guaranty Corporation	2	2	2	2	2	3	3	3	3	3	4
Department of State	3	3	3	3	4	3	3	2	1	NA	2
Department of Transportation	396	866	755	607	526	761	768	719	660	786	697
Federal Aviation Administration	226	290	264	201	180	239	211	224	198	209	209
Federal Highway Administration	74	400	340	260	215	352	320	311	281	386	353
Federal Motor Carrier Safety Administration	7	4	13	7	7	7	7	7	7	8	8
Federal Railroad Administration	22	58	35	38	40	44	41	44	41	52	41
Federal Transit Administration	4	7	4	7	7	22	42	26	11	9	17
National Highway Traffic Safety Administration	32	75	66	59	44	65	116	83	95	93	46
Office of the Secretary of Transportation	29	16	16	16	20	20	18	14	16	14	11
Pipeline and Hazardous Materials Safety Administration	2	15	16	13	4	8	10	8	7	16	12
Research and Innovative Technology Administration	1	2	2	7	9	4	4	3	5	NA	NA
Department of the Treasury	66	65	64	65	69	69	78	76	74	76	67
Bureau of Engraving and Printing	6	6	5	5	3	1	6	5	9	9	9
Internal Revenue Service	58	55	55	60	65	66	71	69	65	64	54
Mint	2	4	4	1	1	1	1	2	*	3	3
Department of Veterans Affairs	402	412	446	480	510	581	559	615	639	608	612
Other agencies											
Agency for Global Media	*	*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agency for International Development	260	255	234	124	156	169	119	77	125	60	212
Appalachian Regional Commission	1	1	1	1	1	1	*	1	*	1	1
Consumer Product Safety Commission	NA	NA	NA	NA	NA	NA	NA	2	1	2	2
Environmental Protection Agency	*	*	*	532	553	595	577	576	523	531	516
Federal Communications Commission	9	8	8	7	7	4	4	4	5	7	5
Federal Trade Commission	1	2	2	3	2	3	3	3	3	3	2
Library of Congress	6	7	12	1	1	1	1	1	1	1	1
National Aeronautics and Space Administration	6,959	6,197	5,919	6,000	5,739	7,316	6,145	10,427	11,265	11,128	12,150
National Archives and Records Administration	*	*	*	5	5	5	3	2	1	1	1
National Science Foundation	3,657	3,707	3,569	3,781	3,937	4,809	5,233	5,124	5,269	5,198	5,059
Nuclear Regulatory Commission	57	59	59	42	74	81	99	81	85	91	71
Patient-Centered Outcomes Research Trust Fund	na	na	na	na	na	na	9	41	74	94	244
Postal Service	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28
Smithsonian Institution	104	113	142	140	151	164	192	195	204	195	196
Social Security Administration	35	68	68	54	68	63	53	65	57	60	59

* = amount greater than \$0 but less than \$500,000. na = not applicable; data were not collected at this level of detail for this agency or subagency. NA = not available; agency did not provide data.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had outlays in variables represented by this table appear in the table. FYs 2009 and 2010 outlays include additional funding provided by the American Recovery and Reinvestment Act of 2009. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 67. Federal outlays for research and development, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
All agencies	109,552	110,000	117,072	124,854	144,920	174,556	178,923	169,099	178,848	180,414
Departments										
Department of Agriculture	2,411	2,330	2,308	2,498	2,459	2,593	2,849	3,059	3,372	3,144
Agricultural Marketing Service	7	7	7	8	7	7	5	6	14	9
Agricultural Research Service	1,118	1,149	1,101	1,150	1,264	1,378	1,494	1,662	1,792	1,638
Animal and Plant Health Inspection Service	39	39	39	39	40	42	45	47	43	42
Economic Research Service	94	82	87	82	82	85	88	93	91	91
Foreign Agricultural Service	*	*	0	0	0	0	0	NA	NA	NA
Forest Service	336	334	327	323	317	290	297	307	330	338
Grain Inspection, Packers, and Stockyards Administration	6	*	na	na	na	na	na	na	na	na
National Agricultural Statistics Service	9	9	9	9	9	9	11	11	8	9
National Institute of Food and Agriculture	798	706	735	884	738	779	908	911	1,000	997
Natural Resources Conservation Service	NA	NA	NA	NA	NA	1	1	22	95	20
Rural Business-Cooperative Service	4	3	3	3	3	0	0	NA	NA	NA
Department of Commerce	1,330	1,526	1,415	1,522	1,546	1,689	1,934	2,273	2,320	4,487
Census Bureau	170	220	110	96	111	109	202	284	360	360
National Institute of Standards and Technology	645	644	670	703	680	769	807	857	994	2,658
National Oceanic and Atmospheric Administration	505	654	627	714	748	800	914	1,125	936	1,050
National Telecommunications and Information Administration	10	8	7	9	8	10	11	6	31	418
Department of Defense	42,700	41,292	44,843	48,135	55,832	63,275	68,717	75,554	85,588	87,854
Defense Advanced Research Projects Agency	2,871	2,877	2,996	3,254	3,466	3,508	3,703	4,036	4,214	4,146
Defense Health Agency	NA	NA	NA	NA	2,001	2,427	2,112	2,248	3,054	2,786
Department of the Air Force	7,137	7,439	11,015	11,830	13,388	14,956	17,254	20,588	24,902	27,961
Air Force	7,137	7,439	11,015	11,830	9,050	10,563	12,935	13,511	15,882	18,159
Space Force	na	na	na	na	4,338	4,393	4,319	7,077	9,020	9,803
Department of the Army	6,800	6,911	7,011	9,293	10,868	11,440	11,284	11,516	10,145	13,060
Department of the Navy	15,166	14,398	12,523	10,903	14,788	16,260	16,425	19,626	23,417	21,901
Other defense agencies	10,726	9,667	11,298	12,855	11,323	14,686	17,938	17,540	19,855	18,000
Department of Education	212	246	235	226	227	214	285	327	361	423
Department of Energy	11,855	12,020	14,607	13,657	10,810	12,263	12,461	13,087	14,519	14,804
Advanced Research Projects Agency—Energy	238	269	251	247	270	308	339	399	391	400
Bonneville Power Administration	16	14	NA	NA	NA	NA	NA	NA	NA	NA
Electricity Delivery and Energy Reliability	92	133	104	144	142	146	111	114	132	162
Energy Efficiency and Renewable Energy	1,142	1,280	1,341	1,451	1,447	1,513	1,426	1,411	1,572	1,450
Environmental Management	23	29	38	29	31	23	22	43	39	39
Fossil Energy	624	620	662	659	584	681	610	818	902	1,010
National Nuclear Security Administration	4,545	4,636	4,025	5,477	3,475	3,866	3,942	3,905	4,327	4,301
Defense Programs	2,980	3,167	2,537	3,360	2,070	2,384	2,827	2,759	3,110	2,996

Table 67. Federal outlays for research and development, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
Naval Nuclear Propulsion Program	1,216	1,220	1,173	1,789	1,113	1,140	749	741	820	906
Office of Defense Nuclear Nonproliferation	349	249	316	329	292	342	366	405	397	400
Nuclear Energy	833	811	846	1,110	1	455	562	291	906	692
Office of Cybersecurity, Energy Security, and Emergency Response	na	na	0	36	51	31	*	66	49	71
Office of Science	4,343	4,227	7,340	4,503	4,809	5,241	5,449	6,041	6,201	6,680
Department of Health and Human Services	29,522	31,169	32,997	35,271	53,408	72,664	68,926	50,958	48,681	45,921
Administration for Children and Families	3	2	1	2	2	5	4	7	13	12
Administration for Community Living	83	83	83	83	92	107	107	113	113	112
Advanced Research Projects Agency for Health	NA	NA	NA	NA	NA	NA	NA	0	460	216
Agency for Healthcare Research and Quality	334	324	334	338	338	338	350	374	374	374
Agency for Toxic Substances and Disease Registry	2	3	3	7	*	11	12	0	3	3
Biomedical Advanced Research and Development Authority	NA	NA	NA	281	17,441	33,881	28,413	5,913	1,489	819
Centers for Disease Control and Prevention	198	208	200	187	218	299	232	198	172	158
Centers for Medicare and Medicaid Services	30	30	231	6	31	36	270	4	4	5
Food and Drug Administration	455	435	428	444	415	528	502	636	656	597
Health Resources and Services Administration	41	46	34	27	25	56	40	72	83	77
National Institutes of Health	28,358	30,021	31,667	33,879	34,830	37,386	38,962	43,608	45,281	43,511
Office of the Secretary of Health and Human Services	18	17	17	17	16	17	36	34	35	37
Office of the Assistant Secretary for Planning and Evaluation	18	17	17	17	16	17	36	34	35	37
Department of Homeland Security	538	841	862	863	867	553	555	584	532	460
Coast Guard	21	21	17	22	5	10	7	7	11	10
Countering Weapons of Mass Destruction Office	63	69	65	81	85	87	66	67	60	40
Cybersecurity and Infrastructure Security Agency	na	na	7	13	8	13	6	8	0	1
Science and Technology Directorate	454	751	752	724	736	411	457	470	422	387
Secret Service	NA	NA	1	2	10	3	1	*	4	4
Transportation Security Administration	NA	NA	20	21	23	29	18	32	35	18
Department of Housing and Urban Development	75	71	71	63	NA	NA	NA	NA	NA	NA
Department of the Interior	857	861	751	801	822	874	916	515	494	447
Bureau of Indian Affairs	NA	NA	5	5	*	5	5	5	5	5
Bureau of Land Management	18	18	21	21	21	9	12	13	17	15
Bureau of Ocean Energy Management	73	73	77	73	73	70	66	0	NA	NA
Bureau of Reclamation	21	27	23	23	27	38	28	32	30	32
Bureau of Safety and Environmental Enforcement	27	21	6	12	8	14	8	10	11	8
Fish and Wildlife Service	32	24	24	24	26	23	35	41	48	6
Geological Survey	677	688	593	640	665	691	737	409	378	377
National Park Service	9	10	1	1	1	23	25	4	5	5
Office of Surface Mining Reclamation and Enforcement	NA	NA	1	1	1	0	NA	NA	NA	NA
Department of Justice	69	24	20	20	24	19	23	34	38	39

Table 67. Federal outlays for research and development, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
Bureau of Prisons	11	10	6	7	8	8	5	13	9	8
Federal Bureau of Investigation	13	2	3	1	5	4	9	6	16	21
Office of Justice Programs	45	12	11	12	11	8	9	15	13	10
Department of Labor	8	3	3	3	3	3	3	1	1	1
Employee Benefits Security Administration	3	1	1	1	1	1	1	1	1	1
Occupational Safety and Health Administration	1	2	2	2	2	2	2	NA	NA	NA
Pension Benefit Guaranty Corporation	4	0	0	NA	NA	NA	NA	NA	NA	NA
Department of State	2	2	62	62	40	64	65	56	34	0
Department of Transportation	719	682	630	669	651	660	689	854	930	1,011
Federal Aviation Administration	223	234	209	211	195	221	222	290	305	311
Federal Highway Administration	353	274	261	287	278	257	263	292	387	344
Federal Motor Carrier Safety Administration	11	12	10	7	7	3	11	13	8	13
Federal Railroad Administration	39	41	33	33	41	38	41	50	30	37
Federal Transit Administration	7	41	36	40	20	29	27	23	24	22
National Highway Traffic Safety Administration	49	55	53	64	67	60	69	77	79	84
Office of the Secretary of Transportation	19	11	16	9	24	31	46	89	80	179
Pipeline and Hazardous Materials Safety Administration	19	13	10	18	18	21	9	20	17	20
Department of the Treasury	85	10	38	45	45	54	48	53	35	64
Bureau of Engraving and Printing	19	9	38	45	45	54	48	52	35	64
Internal Revenue Service	65	0	0	0	0	NA	NA	NA	NA	NA
Mint	2	1	0	*	*	*	0	1	*	*
Department of Veterans Affairs	583	594	644	685	778	1,475	1,610	1,761	1,764	1,800
Other agencies										
Administrative Office of the U.S. Courts	7	8	7	6	5	4	1	NA	NA	NA
Agency for Global Media	NA	NA	NA	6	5	5	8	9	9	0
Agency for International Development	193	192	167	221	194	82	221	252	252	0
Appalachian Regional Commission	*	1	1	1	1	1	1	1	1	1
Consumer Product Safety Commission	2	2	1	1	*	*	*	*	*	*
Environmental Protection Agency	508	494	487	485	489	520	525	572	535	535
Federal Communications Commission	5	7	5	2	2	0	NA	NA	NA	NA
Federal Trade Commission	3	6	6	6	6	8	3	3	1	*
Library of Congress	2	2	3	2	3	3	3	3	na	na
National Aeronautics and Space Administration	11,937	10,528	10,765	13,260	10,481	11,089	12,137	11,281	11,397	10,813
National Archives and Records Administration	1	1	1	1	*	NA	NA	NA	NA	NA
National Science Foundation	5,120	5,279	5,207	5,273	5,370	5,546	5,989	6,780	6,921	7,638
Nuclear Regulatory Commission	86	67	78	75	69	77	82	69	60	55
Patient-Centered Outcomes Research Trust Fund	354	1,345	492	579	470	460	522	555	607	585
Postal Service	29	73	53	27	18	15	14	7	5	3

Table 67. Federal outlays for research and development, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
RESTORE Act Centers of Excellence Research Grants Program	na	na	na	na	7	4	4	5	6	6
Smithsonian Institution	208	210	230	236	210	219	227	242	168	182
Social Security Administration	129	110	72	146	70	105	79	91	97	58
Tennessee Valley Authority	NA	6	13	10	8	17	28	111	117	85

* = amount greater than \$0 but less than \$500,000. na = not applicable; data were not collected at this level of detail for this agency or subagency. NA = not available; agency did not provide data.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had outlays in variables represented by this table appear in the table. Beginning with FY 2016, the totals reported for development outlays represent a refinement to this category by more narrowly defining it to be "experimental development." Most notably, totals for development do not include the Department of Defense (DOD) Budget Activity 7 (Operational System Development) nor Budget Activity 8 (Software and Digital Technology Pilot Programs) outlays. Those funds, previously included in DOD's development outlay totals, support the development efforts to upgrade systems that have been fielded or have received approval for full-rate production and anticipate production funding in the current or subsequent fiscal year. Therefore, the data are not directly comparable with totals reported in previous years. FYs 2020, 2021, and 2022 outlays include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 68. Federal outlays for R&D plant, by agency: FYs 2005–15

(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
All agencies	3,832	2,041	2,123	2,066	2,824	6,135	4,301	2,470	1,859	2,244	2,405
Departments											
Department of Agriculture	149	185	216	148	74	126	119	70	25	19	18
Agricultural Research Service	131	171	191	127	43	56	102	58	15	10	9
Forest Service	18	14	25	21	32	70	17	10	8	7	8
Grain Inspection, Packers, and Stockyards Administration	0	0	0	0	0	0	0	2	2	2	2
Department of Commerce	40	46	68	114	248	288	323	290	180	180	196
Economic Development Administration	0	0	0	18	25	26	15	NA	NA	NA	NA
National Institute of Standards and Technology	38	46	35	49	47	102	171	150	52	51	64
National Oceanic and Atmospheric Administration	2	0	33	46	176	159	137	141	128	129	132
Department of Defense	210	93	152	130	196	148	132	139	87	137	150
Defense agencies and activities	77	35	36	38	8	*	na	na	na	na	na
Department of the Air Force	36	39	15	92	111	129	116	136	68	111	119
Department of the Army	0	0	0	0	77	0	0	0	0	0	0
Department of the Navy	97	20	100	0	0	19	16	1	18	19	24
Other defense agencies	na	na	na	na	na	na	0	2	1	7	8
Department of Energy	847	780	651	748	1,225	904	771	714	559	669	992
Bonneville Power Administration	0	0	0	0	0	0	0	0	14	0	0
Energy Efficiency and Renewable Energy	25	26	2	65	17	53	36	0	16	4	4
Fossil Energy	6	21	12	19	15	15	15	12	16	16	18
National Nuclear Security Administration	300	310	205	269	172	280	152	93	75	82	293
Defense Programs	268	272	171	232	132	201	119	53	75	60	138
Naval Nuclear Propulsion Program	32	39	34	37	40	79	33	40	*	22	155
Office of Science	516	423	433	396	1,020	556	569	609	437	568	677
Department of Health and Human Services	429	359	252	147	151	1,682	79	155	148	160	127
Centers for Disease Control and Prevention	0	144	134	6	0	0	0	0	0	0	0
Food and Drug Administration	3	2	6	5	5	13	8	21	22	23	23
Health Resources and Services Administration	1	1	1	1	*	1	1	1	1	1	1
National Institutes of Health	426	213	111	135	146	1,669	70	133	126	136	104
Department of Homeland Security	61	121	259	210	346	393	694	234	279	408	228
Coast Guard	1	*	1	*	1	1	1	1	1	1	1
Science and Technology Directorate	60	121	258	210	345	392	693	233	278	406	227
Department of the Interior	7	5	10	9	7	6	8	6	7	6	7
Bureau of Ocean Energy Management	3	3	3	3	2	2	5	0	0	0	0
Bureau of Reclamation	5	2	7	6	5	4	4	2	3	2	3
Bureau of Safety and Environmental Enforcement	NA	NA	NA	NA	NA	NA	NA	4	4	3	4
Department of Justice	0	0	0	1	0	0	0	0	0	0	0
Office of Justice Programs	0	0	0	1	0	0	0	0	0	0	0

Table 68. Federal outlays for R&D plant, by agency: FYs 2005–15

(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Department of Labor	0	0	1	1	1	1	1	1	*	0	0
Occupational Safety and Health Administration	0	0	1	1	1	1	1	1	*	0	0
Department of Transportation	16	18	20	19	19	20	18	21	22	20	22
Federal Aviation Administration	15	17	18	17	17	19	17	18	16	18	19
Federal Railroad Administration	1	1	2	2	2	1	1	3	6	2	3
Department of Veterans Affairs	*	*	*	*	0	0	0	0	0	0	0
Other agencies											
Environmental Protection Agency	0	0	0	0	0	0	5	5	7	7	5
National Aeronautics and Space Administration	1,697	12	12	72	76	1,565	1,578	169	65	134	210
National Science Foundation	368	395	453	424	433	949	515	616	434	468	415
Smithsonian Institution	6	26	30	42	49	53	57	50	47	36	33

* = amount greater than \$0 but less than \$500,000. na = not applicable; data were not collected at this level of detail for this agency or subagency. NA = not available; agency did not provide data.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had outlays in variables represented by this table appear in the table. FYs 2009 and 2010 outlays include additional funding provided by the American Recovery and Reinvestment Act of 2009. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 69. Federal outlays for R&D plant, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
All agencies	2,228	3,223	3,844	3,287	4,786	3,805	4,185	4,762	5,105	4,827
Departments										
Department of Agriculture	20	15	38	49	75	111	109	111	111	126
Agricultural Research Service	5	6	23	39	66	100	100	95	110	126
Forest Service	13	9	16	10	9	12	9	14	0	0
Grain Inspection, Packers, and Stockyards Administration	2	*	na	na	na	na	na	na	na	na
Natural Resources Conservation Service	NA	NA	NA	NA	NA	*	0	1	1	*
Department of Commerce	211	183	292	386	261	265	402	623	714	688
National Institute of Standards and Technology	61	64	75	133	94	121	185	149	138	124
National Oceanic and Atmospheric Administration	150	119	217	253	167	144	216	473	462	564
National Telecommunications and Information Administration	0	0	0	0	0	0	2	1	114	0
Department of Defense	168	920	395	353	507	211	251	193	248	233
Defense Health Agency	NA	NA	NA	NA	15	0	0	0	0	0
Department of the Air Force	122	161	179	205	193	163	164	143	186	175
Air Force	122	161	179	205	193	163	164	143	186	175
Space Force	na	na	na	na	0	0	0	0	*	1
Department of the Army	5	720	0	0	0	0	0	0	0	0
Department of the Navy	29	30	38	126	284	38	26	34	50	50
Other defense agencies	12	9	177	22	14	11	62	16	12	8
Department of Energy	998	1,168	2,065	1,508	1,790	2,330	2,608	2,752	3,028	2,657
Energy Efficiency and Renewable Energy	3	4	208	10	55	38	43	43	58	58
Fossil Energy	0	16	21	23	24	28	19	27	26	26
National Nuclear Security Administration	262	290	299	275	512	836	688	862	1,152	966
Defense Programs	102	89	189	275	256	498	418	608	620	552
Naval Nuclear Propulsion Program	160	200	109	0	247	331	270	230	366	248
Office of Defense Nuclear Nonproliferation	0	0	0	0	9	8	*	24	166	166
Nuclear Energy	0	0	0	0	0	0	304	202	223	271
Office of Science	733	859	1,538	1,200	1,200	1,428	1,554	1,617	1,570	1,336
Department of Health and Human Services	141	217	222	156	1,502	355	221	440	363	437
Biomedical Advanced Research and Development Authority	NA	NA	NA	0	1,296	160	1	61	2	*
Centers for Medicare and Medicaid Services	0	0	0	*	0	0	0	0	0	0
Food and Drug Administration	31	29	29	26	28	35	34	43	44	40
Health Resources and Services Administration	1	0	0	0	0	1	0	2	3	4
National Institutes of Health	110	188	193	130	178	158	187	335	314	393
Department of Homeland Security	193	186	215	206	70	13	12	6	21	32
Coast Guard	1	1	1	1	0	0	0	0	0	1
Science and Technology Directorate	192	184	214	205	70	12	12	5	20	30
Transportation Security Administration	NA	NA	0	0	0	1	0	1	1	1

Table 69. Federal outlays for R&D plant, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
Department of the Interior	8	3	4	4	5	2	13	8	9	9
Bureau of Reclamation	1	1	1	1	2	2	2	2	3	2
Bureau of Safety and Environmental Enforcement	7	2	2	3	3	0	11	6	6	7
Department of Transportation	29	35	31	38	52	29	33	35	49	58
Federal Aviation Administration	27	32	30	36	50	27	28	32	42	46
Federal Highway Administration	0	0	0	0	0	0	0	0	*	*
Federal Railroad Administration	2	3	1	2	2	1	5	3	6	12
National Highway Traffic Safety Administration	0	0	0	0	0	1	1	0	0	0
Department of the Treasury	0	0	0	4	2	0	0	0	0	0
Bureau of Engraving and Printing	0	0	0	2	2	0	0	0	0	0
Mint	0	0	0	2	*	0	0	0	0	0
Other agencies										
Environmental Protection Agency	5	5	5	5	4	6	6	2	5	3
National Aeronautics and Space Administration	76	88	87	78	27	43	62	57	74	55
National Science Foundation	348	371	457	468	423	371	397	461	484	530
Nuclear Regulatory Commission	0	0	0	0	1	0	0	0	0	0
Smithsonian Institution	29	33	33	33	66	69	70	74	0	0

* = amount greater than \$0 but less than \$500,000. na = not applicable; data were not collected at this level of detail for this agency or subagency. NA = not available; agency did not provide data.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had outlays in variables represented by this table appear in the table. FYs 2020, 2021, and 2022 outlays include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 70. Federal obligations for research, development, and R&D plant, by agency: FYs 2005–15

(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
All agencies	122,620	123,855	129,431	129,050	144,758	146,968	139,703	140,670	127,626	132,779	131,578
Departments											
Department of Agriculture	2,319	2,386	2,372	2,246	2,345	2,615	2,377	2,188	2,031	2,269	2,352
Agricultural Marketing Service	8	6	6	5	4	4	4	4	5	6	7
Agricultural Research Service	1,227	1,294	1,241	1,146	1,187	1,360	1,152	1,095	1,017	1,123	1,133
Animal and Plant Health Inspection Service	24	26	26	28	29	30	29	37	37	40	40
Economic Research Service	74	75	92	78	79	86	81	77	71	78	85
Foreign Agricultural Service	2	1	1	*	*	*	1	1	1	*	1
Forest Service	316	322	345	316	376	426	370	341	337	343	340
Grain Inspection, Packers, and Stockyards Administration	7	7	7	7	7	6	7	7	6	8	8
National Agricultural Statistics Service	6	7	7	7	7	7	7	7	7	9	9
National Institute of Food and Agriculture	652	645	627	655	652	690	724	614	546	657	726
Rural Business-Cooperative Service	4	4	21	4	4	5	2	4	4	6	4
Department of Commerce	1,094	1,016	1,145	1,196	1,533	1,683	1,309	1,231	1,294	1,568	1,519
Census Bureau	23	22	23	25	29	47	59	102	131	259	142
Economic Development Administration	*	*	1	21	28	19	16	NA	NA	NA	NA
National Institute of Standards and Technology	463	429	508	517	606	925	597	548	609	666	674
National Oceanic and Atmospheric Administration	600	558	607	627	863	685	629	573	547	634	692
National Telecommunications and Information Administration	7	7	7	7	7	8	8	8	7	10	12
Department of Defense	63,661	65,934	72,291	71,997	75,974	73,624	75,328	73,974	63,655	65,129	61,683
Defense Advanced Research Projects Agency	na	na	na	na	na	na	2,846	2,750	2,372	2,822	2,816
Defense agencies and activities	15,407	14,338	15,940	15,947	16,242	16,265	na	na	na	na	na
Department of the Air Force	20,078	21,699	25,292	25,339	28,051	26,649	26,641	27,688	23,600	24,331	22,443
Department of the Army	10,208	11,318	11,629	11,878	11,908	10,853	9,832	9,220	7,883	7,332	6,764
Department of the Navy	17,661	18,399	19,248	18,649	19,586	19,660	17,814	17,753	15,440	15,591	15,525
Operational Test and Evaluation, Director	308	179	182	185	186	197	NA	NA	NA	NA	NA
Other defense agencies	na	na	na	na	na	na	18,195	16,563	14,360	15,052	14,135
Department of Education	316	337	333	328	322	363	346	338	310	322	251
Department of Energy	8,597	8,340	8,630	8,990	11,562	11,645	10,680	10,635	10,397	11,296	12,343
Advanced Research Projects Agency—Energy	NA	NA	NA	0	0	378	175	103	182	261	242
Bonneville Power Administration	11	11	11	14	8	13	13	14	14	16	16
Civilian Radioactive Waste Management	54	53	11	1	*	0	0	0	0	0	0
Electricity Delivery and Energy Reliability	80	133	92	83	87	113	89	101	83	104	97
Energy Efficiency and Renewable Energy	577	457	769	794	1,791	1,998	903	986	922	870	1,083
Environmental Management	50	34	19	19	30	90	67	46	9	28	25
Fossil Energy	573	455	431	417	505	504	430	383	358	442	540
National Nuclear Security Administration	3,922	3,862	3,783	3,981	3,716	3,638	4,164	4,127	4,255	4,532	4,528
Defense Programs	3,001	2,865	2,827	2,939	2,608	2,407	2,867	2,815	2,968	3,120	3,076

Table 70. Federal obligations for research, development, and R&D plant, by agency: FYs 2005–15

(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Naval Nuclear Propulsion Program	775	753	751	743	793	945	974	1,080	994	1,115	1,239
Office of Defense Nuclear Nonproliferation	145	243	205	299	315	287	324	231	294	297	213
Nuclear Energy	85	89	81	133	116	368	388	361	263	324	728
Office of Science	3,246	3,246	3,434	3,548	5,309	4,542	4,452	4,514	4,310	4,720	5,085
Department of Health and Human Services	29,173	29,126	29,556	29,701	35,736	37,617	30,928	31,336	29,513	30,799	30,425
Administration for Children and Families	39	14	12	19	14	7	10	8	2	3	2
Administration for Community Living	3	3	0	0	0	0	0	0	0	0	76
Agency for Healthcare Research and Quality	319	319	319	334	378	852	371	366	365	364	364
Agency for Toxic Substances and Disease Registry	10	9	4	4	5	3	5	1	1	1	2
Centers for Disease Control and Prevention	511	688	679	545	420	447	386	512	363	409	489
Centers for Medicare and Medicaid Services	77	62	57	31	30	82	35	21	20	34	24
Food and Drug Administration	143	147	138	143	171	223	234	359	364	395	382
Health Resources and Services Administration	53	24	24	63	57	67	37	38	37	38	42
National Institutes of Health	27,926	27,778	28,257	28,540	34,641	35,882	29,830	30,010	28,341	29,536	29,026
Office of the Secretary of Health and Human Services	25	27	24	22	20	54	20	19	19	19	18
Office of the Assistant Secretary for Planning and Evaluation	25	27	24	22	20	54	20	19	19	19	18
Substance Abuse and Mental Health Services Administration	68	54	42	0	NA	NA	NA	NA	NA	NA	NA
Department of Homeland Security	1,454	1,857	1,106	1,057	984	1,132	1,128	832	719	944	1,645
Coast Guard	14	22	18	20	22	26	23	40	23	27	21
Countering Weapons of Mass Destruction Office	NA	NA	NA	NA	NA	NA	NA	NA	NA	84	71
Science and Technology Directorate	1,258	1,823	1,084	1,036	962	1,106	1,105	792	696	832	1,553
Secret Service	1	1	1	1	NA	NA	NA	NA	NA	NA	NA
Transportation Security Administration	180	12	4	0	NA	NA	NA	NA	NA	NA	NA
Department of Housing and Urban Development	43	33	40	30	33	62	73	90	67	54	58
Department of the Interior	597	609	625	645	739	728	717	743	717	762	809
Bureau of Land Management	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16
Bureau of Ocean Energy Management	30	32	28	35	38	46	52	39	40	48	50
Bureau of Reclamation	17	11	16	15	13	13	15	12	13	14	13
Bureau of Safety and Environmental Enforcement	NA	NA	NA	NA	NA	NA	NA	13	21	36	25
Fish and Wildlife Service	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	30
Geological Survey	546	561	574	586	674	661	640	673	636	649	666
National Park Service	4	4	8	9	14	8	9	6	7	15	8
Department of Justice	128	128	184	114	103	125	102	85	119	161	150
Bureau of Prisons	13	12	13	11	10	11	12	11	11	11	11
Federal Bureau of Investigation	33	34	71	26	15	30	18	8	39	10	13
Office of Justice Programs	81	81	101	78	78	85	73	67	69	140	126
Department of Labor	164	95	50	42	31	14	56	21	16	14	14
Bureau of Labor Statistics	23	23	24	24	0	NA	NA	NA	NA	NA	NA

Table 70. Federal obligations for research, development, and R&D plant, by agency: FYs 2005–15

(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Employee Benefits Security Administration	3	3	2	2	2	6	49	13	10	7	7
Employment and Training Administration	134	64	19	11	22	NA	NA	NA	NA	NA	NA
Occupational Safety and Health Administration	3	4	3	4	4	6	4	6	4	4	3
Office of the Secretary of Labor	1	*	*	0	NA	0	0	NA	NA	NA	NA
Pension Benefit Guaranty Corporation	2	2	2	2	2	3	3	3	3	3	4
Department of State	3	4	4	4	4	3	3	2	1	NA	2
Department of Transportation	437	838	811	825	846	929	862	936	876	848	884
Federal Aviation Administration	244	277	260	274	316	409	347	360	310	297	340
Federal Highway Administration	74	400	405	377	348	337	344	403	397	398	313
Federal Motor Carrier Safety Administration	7	5	9	8	7	7	6	7	8	8	8
Federal Railroad Administration	32	49	40	39	42	44	47	46	53	43	47
Federal Transit Administration	4	17	6	9	10	23	24	26	16	8	82
National Highway Traffic Safety Administration	40	58	64	83	82	71	71	69	65	65	63
Office of the Secretary of Transportation	21	15	6	13	20	23	9	9	11	15	11
Pipeline and Hazardous Materials Safety Administration	14	15	18	9	10	10	8	11	11	14	22
Research and Innovative Technology Administration	2	2	3	11	11	6	5	5	5	NA	NA
Department of the Treasury	66	69	65	65	69	69	78	76	74	74	73
Bureau of Engraving and Printing	6	6	5	5	3	1	6	5	9	9	9
Internal Revenue Service	58	55	55	60	65	66	71	69	65	64	64
Mint	2	7	5	1	1	1	1	2	*	1	*
Department of Veterans Affairs	402	412	446	480	510	563	613	615	639	589	662
Other agencies											
Agency for Global Media	*	*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agency for International Development	257	255	234	124	160	84	119	77	125	60	212
Appalachian Regional Commission	1	1	1	1	1	1	*	1	*	1	*
Consumer Product Safety Commission	NA	NA	NA	NA	NA	NA	NA	2	1	2	2
Environmental Protection Agency	641	622	576	532	553	572	582	581	530	538	521
Federal Communications Commission	9	8	8	7	7	4	4	4	5	7	5
Federal Trade Commission	1	2	2	3	2	3	3	3	3	3	2
Library of Congress	9	7	7	1	1	1	2	1	1	1	1
National Aeronautics and Space Administration	8,928	7,250	6,206	5,847	5,958	8,691	8,429	10,758	10,494	10,881	11,413
National Archives and Records Administration	*	*	*	5	5	5	3	2	1	1	1
National Science Foundation	4,098	4,240	4,407	4,506	6,925	6,073	5,537	5,705	5,328	5,800	5,990
Nuclear Regulatory Commission	70	71	77	61	61	85	84	83	76	85	92
Patient-Centered Outcomes Research Trust Fund	na	na	na	na	na	na	41	41	334	283	152
Postal Service	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28
Smithsonian Institution	115	146	186	188	227	213	249	246	240	231	229
Social Security Administration	35	68	68	54	68	63	53	65	57	60	59

* = amount greater than \$0 but less than \$500,000. na = not applicable; data were not collected at this level of detail for this agency or subagency. NA = not available; agency did not provide data.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. FYs 2009 and 2010 obligations include additional funding provided by the American Recovery and Reinvestment Act of 2009. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 71. Federal obligations for research, development, and R&D plant, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
All agencies	118,274	121,627	133,278	146,801	173,553	193,922	196,639	191,740	199,455	198,703
Departments										
Department of Agriculture	2,380	2,575	2,523	2,666	3,433	2,955	3,315	3,592	3,631	3,355
Agricultural Marketing Service	7	7	7	8	7	13	10	13	29	18
Agricultural Research Service	1,152	1,318	1,229	1,312	2,204	1,556	1,821	1,793	1,925	1,851
Animal and Plant Health Inspection Service	40	39	39	39	40	42	45	48	77	72
Economic Research Service	85	86	86	86	82	85	88	93	91	91
Foreign Agricultural Service	*	*	0	0	0	0	0	NA	NA	NA
Forest Service	354	337	343	337	351	298	339	364	320	291
Grain Inspection, Packers, and Stockyards Administration	8	*	na	na	na	na	na	na	na	na
National Agricultural Statistics Service	9	9	9	9	9	9	11	11	8	9
National Institute of Food and Agriculture	721	774	805	871	738	937	986	1,249	1,090	1,000
Natural Resources Conservation Service	NA	NA	NA	NA	NA	14	16	22	92	23
Rural Business-Cooperative Service	4	3	4	4	3	0	0	NA	NA	NA
Department of Commerce	1,636	1,847	1,832	1,999	1,981	2,242	2,390	3,159	3,576	10,515
Census Bureau	200	220	110	96	111	109	202	284	360	360
National Institute of Standards and Technology	751	807	791	831	878	1,136	958	1,041	1,449	8,100
National Oceanic and Atmospheric Administration	675	812	922	1,064	984	990	1,218	1,815	1,619	1,637
National Telecommunications and Information Administration	11	8	9	8	8	7	13	18	148	418
Department of Defense	44,927	45,164	53,444	59,389	67,007	70,876	72,607	85,827	98,091	93,584
Defense Advanced Research Projects Agency	2,933	2,895	3,018	3,321	3,664	3,606	3,609	3,779	4,177	4,404
Defense Health Agency	NA	NA	NA	NA	2,886	2,852	2,136	2,738	3,215	2,509
Department of the Air Force	7,441	8,324	11,413	15,269	16,310	17,853	18,980	23,929	30,428	30,407
Air Force	7,441	8,324	11,413	15,269	11,924	12,511	14,029	15,713	20,970	19,748
Space Force	na	na	na	na	4,386	5,342	4,951	8,216	9,458	10,658
Department of the Army	6,373	7,531	8,581	10,275	10,786	11,921	12,060	14,470	15,507	14,470
Department of the Navy	16,682	15,285	15,525	15,484	19,159	16,771	17,551	21,360	24,039	22,531
Other defense agencies	11,497	11,129	14,907	15,040	14,202	17,873	18,272	19,552	20,725	19,264
Department of Education	244	262	266	236	240	364	402	372	457	457
Department of Energy	13,343	13,584	14,894	16,622	15,778	16,121	17,977	19,437	19,808	18,763
Advanced Research Projects Agency—Energy	299	274	160	405	438	315	403	471	496	460
Bonneville Power Administration	16	14	NA	NA	NA	NA	NA	NA	NA	NA
Electricity Delivery and Energy Reliability	112	133	146	138	140	129	114	139	164	178
Energy Efficiency and Renewable Energy	1,291	1,445	1,913	2,001	2,150	2,155	1,659	3,022	2,532	2,532
Environmental Management	30	31	38	26	22	30	36	37	33	39
Fossil Energy	609	620	683	682	708	720	588	1,037	1,509	1,185
National Nuclear Security Administration	4,819	4,740	4,531	6,078	4,558	5,180	5,219	5,174	5,495	5,183
Defense Programs	3,198	3,071	2,831	3,998	2,625	3,321	3,456	3,326	3,718	3,464

Table 71. Federal obligations for research, development, and R&D plant, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
Naval Nuclear Propulsion Program	1,375	1,420	1,420	1,789	1,634	1,471	1,382	1,419	1,213	1,153
Office of Defense Nuclear Nonproliferation	245	249	280	292	298	388	381	429	564	566
Nuclear Energy	763	891	1,116	606	573	455	1,176	1,314	1,272	1,034
Office of Cybersecurity, Energy Security, and Emergency Response	na	na	0	52	51	2	37	149	104	138
Office of Science	5,405	5,436	6,308	6,634	7,139	7,135	8,746	8,095	8,203	8,015
Department of Health and Human Services	32,367	33,902	37,116	39,434	61,775	77,050	74,388	53,012	49,183	48,106
Administration for Children and Families	3	2	3	2	2	5	5	7	11	11
Administration for Community Living	83	83	83	83	90	107	107	113	113	112
Advanced Research Projects Agency for Health	NA	NA	NA	NA	NA	NA	NA	794	1,039	1,097
Agency for Healthcare Research and Quality	334	324	334	338	338	338	350	374	374	374
Agency for Toxic Substances and Disease Registry	2	3	3	7	10	11	12	19	3	3
Biomedical Advanced Research and Development Authority	NA	NA	NA	736	16,962	34,041	28,414	5,974	1,491	819
Centers for Disease Control and Prevention	521	475	451	419	497	696	565	454	384	369
Centers for Medicare and Medicaid Services	30	29	231	133	224	421	419	35	20	20
Food and Drug Administration	491	380	485	519	484	597	571	726	737	671
Health Resources and Services Administration	41	46	36	33	35	42	40	83	89	83
National Institutes of Health	30,843	32,542	35,473	37,146	43,117	40,775	43,869	44,399	44,888	44,509
Office of the Secretary of Health and Human Services	18	17	17	17	16	17	36	34	35	37
Office of the Assistant Secretary for Planning and Evaluation	18	17	17	17	16	17	36	34	35	37
Department of Homeland Security	689	870	913	648	507	549	599	664	540	359
Coast Guard	25	23	23	21	5	10	7	7	8	10
Countering Weapons of Mass Destruction Office	63	69	30	81	37	32	66	67	52	15
Cybersecurity and Infrastructure Security Agency	na	na	7	13	8	13	6	8	0	1
Science and Technology Directorate	601	778	832	511	422	463	502	545	461	315
Secret Service	NA	NA	1	2	13	1	1	4	4	7
Transportation Security Administration	NA	NA	20	21	23	30	18	33	14	12
Department of Housing and Urban Development	67	64	62	61	NA	NA	NA	NA	NA	NA
Department of the Interior	860	868	769	831	844	915	947	522	503	455
Bureau of Indian Affairs	NA	NA	5	5	*	5	5	5	5	5
Bureau of Land Management	18	18	21	21	21	10	12	13	17	15
Bureau of Ocean Energy Management	72	76	78	86	73	77	86	0	NA	NA
Bureau of Reclamation	22	29	23	24	29	40	29	34	33	34
Bureau of Safety and Environmental Enforcement	30	16	7	13	13	32	14	14	15	12
Fish and Wildlife Service	32	33	33	33	33	33	35	41	48	6
Geological Survey	677	688	593	640	665	691	737	409	378	377
National Park Service	9	10	10	10	10	28	28	5	6	6
Office of Surface Mining Reclamation and Enforcement	NA	NA	0	*	1	0	NA	NA	NA	NA
Department of Justice	208	127	107	121	96	93	116	128	152	154

Table 71. Federal obligations for research, development, and R&D plant, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
Bureau of Prisons	11	10	6	7	8	8	5	13	9	8
Federal Bureau of Investigation	13	2	3	1	5	4	9	6	16	21
Office of Justice Programs	184	115	98	114	84	81	102	108	127	125
Department of Labor	10	5	5	4	5	3	4	2	2	2
Employee Benefits Security Administration	5	3	3	3	3	1	2	2	2	2
Occupational Safety and Health Administration	1	2	2	2	2	2	2	NA	NA	NA
Pension Benefit Guaranty Corporation	4	0	0	NA	NA	NA	NA	NA	NA	NA
Department of State	2	2	62	62	40	64	65	56	34	0
Department of Transportation	962	987	1,077	1,052	1,224	1,163	1,132	1,208	1,229	1,238
Federal Aviation Administration	426	435	404	424	470	542	511	471	424	437
Federal Highway Administration	332	352	491	452	512	410	383	435	438	431
Federal Motor Carrier Safety Administration	11	12	9	8	9	13	24	16	16	10
Federal Railroad Administration	44	46	49	41	48	44	40	53	44	30
Federal Transit Administration	35	55	10	3	40	43	13	8	51	7
National Highway Traffic Safety Administration	87	69	76	76	69	66	92	93	108	123
Office of the Secretary of Transportation	18	11	16	20	34	30	45	94	129	178
Pipeline and Hazardous Materials Safety Administration	10	7	22	28	41	16	24	38	21	22
Department of the Treasury	85	8	38	61	61	54	47	53	35	64
Bureau of Engraving and Printing	19	7	38	59	60	54	47	52	35	64
Internal Revenue Service	65	0	0	0	0	NA	NA	NA	NA	NA
Mint	2	1	0	2	*	*	0	1	*	*
Department of Veterans Affairs	695	682	1,349	1,508	1,565	1,698	1,696	1,916	1,869	1,880
Other agencies										
Administrative Office of the U.S. Courts	7	8	7	6	5	4	1	NA	NA	NA
Agency for Global Media	NA	NA	NA	6	5	5	8	9	9	0
Agency for International Development	193	192	167	221	194	82	221	252	252	0
Appalachian Regional Commission	1	*	1	1	1	1	1	2	1	*
Consumer Product Safety Commission	2	2	1	1	*	*	*	*	*	*
Environmental Protection Agency	513	498	492	490	493	526	531	574	540	538
Federal Communications Commission	5	7	5	2	2	0	NA	NA	NA	NA
Federal Trade Commission	3	6	6	6	6	8	3	3	1	*
Library of Congress	2	2	3	2	3	3	3	3	na	na
National Aeronautics and Space Administration	12,462	12,638	10,814	13,616	10,574	11,267	11,750	11,824	10,967	10,962
National Archives and Records Administration	1	1	1	1	0	NA	NA	NA	NA	NA
National Science Foundation	6,022	5,946	6,358	6,648	6,793	7,138	7,425	7,971	7,503	7,314
Nuclear Regulatory Commission	81	67	78	75	69	80	61	47	73	41
Patient-Centered Outcomes Research Trust Fund	115	884	492	578	470	460	522	553	605	583
Postal Service	29	73	53	27	18	15	14	7	5	3

Table 71. Federal obligations for research, development, and R&D plant, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
RESTORE Act Centers of Excellence Research Grants Program	na	na	na	na	9	0	7	23	7	5
Smithsonian Institution	235	241	261	269	276	63	297	316	168	182
Social Security Administration	129	110	72	146	70	105	79	96	97	58
Tennessee Valley Authority	NA	6	13	10	8	17	28	111	117	85

* = amount greater than \$0 but less than \$500,000. na = not applicable; data were not collected at this level of detail for this agency or subagency. NA = not available; agency did not provide data.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. Beginning with FY 2016, the totals reported for development obligations represent a refinement to this category by more narrowly defining it to be "experimental development." Most notably, totals for development do not include the Department of Defense (DOD) Budget Activity 7 (Operational System Development) nor Budget Activity 8 (Software and Digital Technology Pilot Programs) obligations. Those funds, previously included in DOD's development obligation totals, support the development efforts to upgrade systems that have been fielded or have received approval for full-rate production and anticipate production funding in the current or subsequent fiscal year. Therefore, the data are not directly comparable with totals reported in previous years. FYs 2020, 2021, and 2022 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 72. Federal obligations for research and development, by agency: FYs 2005–15

(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
All agencies	118,848	121,730	127,263	127,106	141,090	140,355	135,533	138,525	125,720	130,561	128,753
Departments											
Department of Agriculture	2,184	2,214	2,248	2,202	2,267	2,364	2,341	2,171	2,019	2,258	2,341
Agricultural Marketing Service	8	6	6	5	4	4	4	4	5	6	7
Agricultural Research Service	1,108	1,135	1,142	1,123	1,141	1,178	1,133	1,090	1,014	1,122	1,132
Animal and Plant Health Inspection Service	24	26	26	28	29	30	29	37	37	40	40
Economic Research Service	74	75	92	78	79	86	81	77	71	78	85
Foreign Agricultural Service	2	1	1	*	*	*	1	1	1	*	1
Forest Service	301	308	320	295	344	357	353	331	329	335	332
Grain Inspection, Packers, and Stockyards Administration	7	7	7	7	7	6	7	5	5	6	6
National Agricultural Statistics Service	6	7	7	7	7	7	7	7	7	9	9
National Institute of Food and Agriculture	652	645	627	655	652	690	724	614	546	657	726
Rural Business-Cooperative Service	4	4	21	4	4	5	2	4	4	6	4
Department of Commerce	1,033	942	1,028	1,045	1,147	1,274	1,067	1,055	1,092	1,375	1,331
Census Bureau	23	22	23	25	29	47	59	102	131	259	142
Economic Development Administration	*	*	1	2	3	7	1	NA	NA	NA	NA
National Institute of Standards and Technology	419	386	456	430	500	687	507	513	535	602	634
National Oceanic and Atmospheric Administration	584	527	541	581	608	525	492	433	419	504	544
National Telecommunications and Information Administration	7	7	7	7	7	8	8	8	7	10	12
Department of Defense	63,388	65,871	72,211	71,833	75,857	73,471	75,158	73,804	63,558	64,980	61,514
Defense Advanced Research Projects Agency	na	na	na	na	na	na	2,846	2,750	2,372	2,822	2,816
Defense agencies and activities	15,324	14,304	15,904	15,906	16,241	16,264	na	na	na	na	na
Department of the Air Force	19,971	21,688	25,264	25,232	27,950	26,521	26,500	27,545	23,524	24,210	22,320
Department of the Army	10,208	11,318	11,629	11,878	11,908	10,853	9,832	9,220	7,883	7,332	6,764
Department of the Navy	17,577	18,382	19,233	18,633	19,571	19,635	17,793	17,728	15,419	15,567	15,490
Operational Test and Evaluation, Director	308	179	182	185	186	197	NA	NA	NA	NA	NA
Other defense agencies	na	na	na	na	na	na	18,187	16,561	14,359	15,048	14,124
Department of Education	316	337	333	328	322	363	346	338	310	322	251
Department of Energy	7,733	7,562	7,877	8,239	9,890	10,686	9,946	9,952	9,841	10,526	11,391
Advanced Research Projects Agency—Energy	NA	NA	NA	0	0	378	175	103	182	261	242
Bonneville Power Administration	11	11	11	14	8	13	13	14	14	16	16
Civilian Radioactive Waste Management	54	53	11	1	*	0	0	0	0	0	0
Electricity Delivery and Energy Reliability	80	133	92	83	87	113	89	101	83	104	97
Energy Efficiency and Renewable Energy	557	431	662	729	1,584	1,895	863	986	918	866	1,079
Environmental Management	50	34	19	19	30	90	67	46	9	28	25
Fossil Energy	566	436	419	404	486	485	411	367	342	426	524
National Nuclear Security Administration	3,619	3,557	3,591	3,718	3,548	3,448	4,036	4,034	4,180	4,417	4,271
Defense Programs	2,733	2,594	2,656	2,707	2,476	2,247	2,771	2,762	2,893	3,026	2,975

Table 72. Federal obligations for research and development, by agency: FYs 2005–15

(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Naval Nuclear Propulsion Program	741	720	730	712	756	914	942	1,040	994	1,094	1,083
Office of Defense Nuclear Nonproliferation	145	243	205	299	315	287	324	231	294	297	213
Nuclear Energy	85	89	81	133	116	368	388	361	263	324	728
Office of Science	2,712	2,818	2,993	3,137	4,031	3,895	3,904	3,940	3,848	4,085	4,409
Department of Health and Human Services	28,746	28,766	29,302	29,554	35,584	35,935	30,849	31,196	29,382	30,656	30,272
Administration for Children and Families	39	14	12	19	14	7	10	8	2	3	2
Administration for Community Living	3	3	0	0	0	0	0	0	0	0	76
Agency for Healthcare Research and Quality	319	319	319	334	378	852	371	366	365	364	364
Agency for Toxic Substances and Disease Registry	10	9	4	4	5	3	5	1	1	1	2
Centers for Disease Control and Prevention	511	545	544	539	420	447	386	512	363	409	489
Centers for Medicare and Medicaid Services	77	62	57	31	30	82	35	21	20	34	24
Food and Drug Administration	142	143	129	138	166	211	225	353	361	389	376
Health Resources and Services Administration	53	24	23	62	56	66	37	38	37	38	41
National Institutes of Health	27,500	27,566	28,146	28,404	34,494	34,213	29,760	29,877	28,215	29,400	28,880
Office of the Secretary of Health and Human Services	25	27	24	22	20	54	20	19	19	19	18
Office of the Assistant Secretary for Planning and Evaluation	25	27	24	22	20	54	20	19	19	19	18
Substance Abuse and Mental Health Services Administration	68	54	42	0	NA	NA	NA	NA	NA	NA	NA
Department of Homeland Security	1,362	1,725	863	837	673	674	559	602	391	583	742
Coast Guard	13	21	17	20	20	25	21	39	22	26	20
Countering Weapons of Mass Destruction Office	NA	NA	NA	NA	NA	NA	NA	NA	NA	84	71
Science and Technology Directorate	1,167	1,692	841	817	652	649	538	563	369	472	651
Secret Service	1	1	1	1	NA	NA	NA	NA	NA	NA	NA
Transportation Security Administration	180	12	4	0	NA	NA	NA	NA	NA	NA	NA
Department of Housing and Urban Development	43	33	40	30	33	62	73	90	67	54	58
Department of the Interior	590	603	615	636	732	722	706	738	709	758	800
Bureau of Land Management	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16
Bureau of Ocean Energy Management	27	29	25	32	36	43	45	39	40	48	50
Bureau of Reclamation	13	9	9	9	9	10	11	10	10	12	10
Bureau of Safety and Environmental Enforcement	NA	NA	NA	NA	NA	NA	NA	10	16	33	20
Fish and Wildlife Service	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	30
Geological Survey	546	561	574	586	674	661	640	673	636	649	666
National Park Service	4	4	8	9	14	8	9	6	7	15	8
Department of Justice	128	128	176	113	103	125	102	85	119	161	150
Bureau of Prisons	13	12	13	11	10	11	12	11	11	11	11
Federal Bureau of Investigation	33	34	71	26	15	30	18	8	39	10	13
Office of Justice Programs	81	81	93	77	78	85	73	67	69	140	126
Department of Labor	164	95	50	42	31	14	56	21	16	14	14
Bureau of Labor Statistics	23	23	24	24	0	NA	NA	NA	NA	NA	NA

Table 72. Federal obligations for research and development, by agency: FYs 2005–15

(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Employee Benefits Security Administration	3	3	2	2	2	6	49	13	10	7	7
Employment and Training Administration	134	64	19	11	22	NA	NA	NA	NA	NA	NA
Occupational Safety and Health Administration	3	4	3	4	4	6	4	6	4	4	3
Office of the Secretary of Labor	1	*	*	0	NA	0	0	NA	NA	NA	NA
Pension Benefit Guaranty Corporation	2	2	2	2	2	3	3	3	3	3	4
Department of State	3	4	4	4	4	3	3	2	1	NA	2
Department of Transportation	418	819	791	806	826	908	841	898	855	828	856
Federal Aviation Administration	227	260	242	257	298	390	330	329	292	280	313
Federal Highway Administration	74	400	405	377	348	337	344	403	397	398	313
Federal Motor Carrier Safety Administration	7	5	9	8	7	7	6	7	8	8	8
Federal Railroad Administration	31	47	38	38	40	41	44	40	50	40	44
Federal Transit Administration	4	17	6	9	10	23	24	26	16	8	82
National Highway Traffic Safety Administration	40	58	64	83	82	71	71	69	65	65	63
Office of the Secretary of Transportation	21	15	6	13	20	23	9	9	11	15	11
Pipeline and Hazardous Materials Safety Administration	14	15	18	9	10	10	8	11	11	14	22
Research and Innovative Technology Administration	2	2	3	11	11	6	5	5	5	NA	NA
Department of the Treasury	66	65	64	65	69	69	78	76	74	74	73
Bureau of Engraving and Printing	6	6	5	5	3	1	6	5	9	9	9
Internal Revenue Service	58	55	55	60	65	66	71	69	65	64	64
Mint	2	4	4	1	1	1	1	2	*	1	*
Department of Veterans Affairs	402	412	446	480	510	563	613	615	639	589	662
Other agencies											
Agency for Global Media	*	*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agency for International Development	257	255	234	124	160	84	119	77	125	60	212
Appalachian Regional Commission	1	1	1	1	1	1	*	1	*	1	*
Consumer Product Safety Commission	NA	NA	NA	NA	NA	NA	NA	2	1	2	2
Environmental Protection Agency	641	622	576	532	553	572	577	576	523	531	516
Federal Communications Commission	9	8	8	7	7	4	4	4	5	7	5
Federal Trade Commission	1	2	2	3	2	3	3	3	3	3	2
Library of Congress	9	7	7	1	1	1	2	1	1	1	1
National Aeronautics and Space Administration	7,395	7,211	6,126	5,827	5,937	7,121	6,570	10,660	10,368	10,754	11,361
National Archives and Records Administration	*	*	*	5	5	5	3	2	1	1	1
National Science Foundation	3,743	3,791	3,970	4,135	6,095	5,016	5,146	5,170	4,956	5,403	5,670
Nuclear Regulatory Commission	70	71	77	61	61	85	84	83	76	85	92
Patient-Centered Outcomes Research Trust Fund	na	na	na	na	na	na	41	41	334	283	152
Postal Service	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28
Smithsonian Institution	109	119	145	142	152	167	193	197	195	195	196
Social Security Administration	35	68	68	54	68	63	53	65	57	60	59

* = amount greater than \$0 but less than \$500,000. na = not applicable; data were not collected at this level of detail for this agency or subagency. NA = not available; agency did not provide data.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. FYs 2009 and 2010 obligations include additional funding provided by the American Recovery and Reinvestment Act of 2009. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 73. Federal obligations for research and development, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
All agencies	115,833	118,975	129,425	142,424	167,403	189,640	190,466	186,076	194,243	194,056
Departments										
Department of Agriculture	2,358	2,418	2,479	2,637	2,644	2,898	3,135	3,529	3,493	3,294
Agricultural Marketing Service	7	7	7	8	7	13	10	13	29	18
Agricultural Research Service	1,144	1,170	1,201	1,292	1,424	1,510	1,651	1,744	1,787	1,790
Animal and Plant Health Inspection Service	40	39	39	39	40	42	45	48	77	72
Economic Research Service	85	86	86	86	82	85	88	93	91	91
Foreign Agricultural Service	*	*	0	0	0	0	0	NA	NA	NA
Forest Service	341	328	327	327	342	286	330	350	320	291
Grain Inspection, Packers, and Stockyards Administration	6	*	na	na	na	na	na	na	na	na
National Agricultural Statistics Service	9	9	9	9	9	9	11	11	8	9
National Institute of Food and Agriculture	721	774	805	871	738	937	986	1,249	1,090	1,000
Natural Resources Conservation Service	NA	NA	NA	NA	NA	13	16	21	91	23
Rural Business-Cooperative Service	4	3	4	4	3	0	0	NA	NA	NA
Department of Commerce	1,351	1,612	1,439	1,535	1,622	1,813	2,011	2,348	2,665	9,848
Census Bureau	200	220	110	96	111	109	202	284	360	360
National Institute of Standards and Technology	629	716	686	712	735	885	862	898	1,314	8,001
National Oceanic and Atmospheric Administration	511	668	634	719	768	812	936	1,149	966	1,072
National Telecommunications and Information Administration	11	8	9	8	8	7	11	16	26	415
Department of Defense	44,749	44,873	52,973	58,780	66,695	70,707	72,352	85,536	97,856	93,353
Defense Advanced Research Projects Agency	2,933	2,895	3,018	3,321	3,664	3,606	3,609	3,779	4,177	4,404
Defense Health Agency	NA	NA	NA	NA	2,870	2,852	2,136	2,738	3,215	2,509
Department of the Air Force	7,322	8,099	11,203	15,077	16,069	17,732	18,849	23,710	30,252	30,234
Air Force	7,322	8,099	11,203	15,077	11,683	12,390	13,898	15,494	20,794	19,576
Space Force	na	na	na	na	4,386	5,342	4,951	8,216	9,458	10,658
Department of the Army	6,372	7,531	8,581	10,275	10,786	11,921	12,060	14,470	15,507	14,470
Department of the Navy	16,644	15,236	15,446	15,341	19,114	16,734	17,488	21,302	23,990	22,481
Other defense agencies	11,477	11,112	14,725	14,766	14,191	17,863	18,210	19,537	20,716	19,255
Department of Education	244	262	266	236	240	364	402	372	457	457
Department of Energy	12,209	12,308	12,832	14,376	13,453	13,453	13,697	16,145	16,893	16,031
Advanced Research Projects Agency—Energy	299	274	160	405	438	315	403	471	496	460
Bonneville Power Administration	16	14	NA	NA	NA	NA	NA	NA	NA	NA
Electricity Delivery and Energy Reliability	112	133	146	138	140	129	114	139	164	178
Energy Efficiency and Renewable Energy	1,288	1,441	1,686	1,696	2,096	2,114	1,610	2,933	2,474	2,474
Environmental Management	30	31	38	26	22	30	36	37	33	39
Fossil Energy	609	605	662	659	679	691	559	1,012	1,484	1,160
National Nuclear Security Administration	4,568	4,435	4,057	5,741	3,984	4,213	4,011	4,078	4,483	4,213
Defense Programs	3,107	2,966	2,572	3,660	2,298	2,703	2,838	2,832	3,128	2,908

Table 73. Federal obligations for research and development, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
Naval Nuclear Propulsion Program	1,216	1,220	1,206	1,789	1,387	1,140	807	841	958	906
Office of Defense Nuclear Nonproliferation	245	249	280	292	298	369	366	405	397	400
Nuclear Energy	763	891	1,116	606	573	455	804	836	941	691
Office of Cybersecurity, Energy Security, and Emergency Response	na	na	0	52	51	2	37	149	104	138
Office of Science	4,524	4,485	4,968	5,054	5,470	5,506	6,124	6,491	6,713	6,680
Department of Health and Human Services	32,216	33,774	36,911	39,191	60,006	76,651	74,097	52,528	48,793	47,719
Administration for Children and Families	3	2	3	2	2	5	5	7	11	11
Administration for Community Living	83	83	83	83	90	107	107	113	113	112
Advanced Research Projects Agency for Health	NA	NA	NA	NA	NA	NA	NA	794	1,039	1,097
Agency for Healthcare Research and Quality	334	324	334	338	338	338	350	374	374	374
Agency for Toxic Substances and Disease Registry	2	3	3	7	10	11	12	19	3	3
Biomedical Advanced Research and Development Authority	NA	NA	NA	736	15,666	33,881	28,413	5,913	1,489	819
Centers for Disease Control and Prevention	521	475	451	419	497	696	565	454	384	369
Centers for Medicare and Medicaid Services	30	29	231	133	224	421	419	35	20	20
Food and Drug Administration	486	375	478	493	464	589	561	710	733	667
Health Resources and Services Administration	41	46	36	33	35	41	40	81	86	80
National Institutes of Health	30,698	32,419	35,276	36,929	42,664	40,546	43,589	43,994	44,508	44,129
Office of the Secretary of Health and Human Services	18	17	17	17	16	17	36	34	35	37
Office of the Assistant Secretary for Planning and Evaluation	18	17	17	17	16	17	36	34	35	37
Department of Homeland Security	572	857	912	647	507	529	589	648	536	353
Coast Guard	23	22	22	20	5	10	7	7	8	10
Countering Weapons of Mass Destruction Office	63	69	30	81	37	32	66	67	52	15
Cybersecurity and Infrastructure Security Agency	na	na	7	13	8	13	6	8	0	1
Science and Technology Directorate	486	766	832	511	422	444	491	530	459	311
Secret Service	NA	NA	1	2	13	1	1	4	4	6
Transportation Security Administration	NA	NA	20	21	23	29	18	32	13	11
Department of Housing and Urban Development	67	64	62	61	NA	NA	NA	NA	NA	NA
Department of the Interior	857	863	766	827	837	902	940	516	494	446
Bureau of Indian Affairs	NA	NA	5	5	*	5	5	5	5	5
Bureau of Land Management	18	18	21	21	21	10	12	13	17	15
Bureau of Ocean Energy Management	72	76	78	86	73	77	86	0	NA	NA
Bureau of Reclamation	21	27	21	23	27	38	28	32	30	32
Bureau of Safety and Environmental Enforcement	27	11	5	9	8	21	9	10	9	6
Fish and Wildlife Service	32	33	33	33	33	33	35	41	48	6
Geological Survey	677	688	593	640	665	691	737	409	378	377
National Park Service	9	10	10	10	10	28	28	5	6	6
Office of Surface Mining Reclamation and Enforcement	NA	NA	0	*	1	0	NA	NA	NA	NA
Department of Justice	208	127	107	121	96	93	116	128	152	154

Table 73. Federal obligations for research and development, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
Bureau of Prisons	11	10	6	7	8	8	5	13	9	8
Federal Bureau of Investigation	13	2	3	1	5	4	9	6	16	21
Office of Justice Programs	184	115	98	114	84	81	102	108	127	125
Department of Labor	10	5	5	4	5	3	4	2	2	2
Employee Benefits Security Administration	5	3	3	3	3	1	2	2	2	2
Occupational Safety and Health Administration	1	2	2	2	2	2	2	NA	NA	NA
Pension Benefit Guaranty Corporation	4	0	0	NA	NA	NA	NA	NA	NA	NA
Department of State	2	2	62	62	40	64	65	56	34	0
Department of Transportation	937	949	1,046	1,012	1,184	1,126	1,094	1,173	1,192	1,201
Federal Aviation Administration	403	399	375	387	432	507	478	439	396	408
Federal Highway Administration	332	352	491	452	512	410	383	435	437	431
Federal Motor Carrier Safety Administration	11	12	9	8	9	13	24	16	16	10
Federal Railroad Administration	41	44	47	39	46	42	36	50	35	22
Federal Transit Administration	35	55	10	3	40	43	13	8	51	7
National Highway Traffic Safety Administration	87	69	76	76	69	66	92	93	108	123
Office of the Secretary of Transportation	18	11	16	20	34	30	45	94	129	178
Pipeline and Hazardous Materials Safety Administration	10	7	22	28	41	16	24	38	21	22
Department of the Treasury	85	8	38	57	61	54	47	53	35	64
Bureau of Engraving and Printing	19	7	38	57	60	54	47	52	35	64
Internal Revenue Service	65	0	0	0	0	NA	NA	NA	NA	NA
Mint	2	1	0	*	*	*	0	1	*	*
Department of Veterans Affairs	695	682	1,349	1,508	1,565	1,698	1,696	1,916	1,869	1,880
Other agencies										
Administrative Office of the U.S. Courts	7	8	7	6	5	4	1	NA	NA	NA
Agency for Global Media	NA	NA	NA	6	5	5	8	9	9	0
Agency for International Development	193	192	167	221	194	82	221	252	252	0
Appalachian Regional Commission	1	*	1	1	1	1	1	2	1	*
Consumer Product Safety Commission	2	2	1	1	*	*	*	*	*	*
Environmental Protection Agency	508	494	487	485	489	520	525	572	535	535
Federal Communications Commission	5	7	5	2	2	0	NA	NA	NA	NA
Federal Trade Commission	3	6	6	6	6	8	3	3	1	*
Library of Congress	2	2	3	2	3	3	3	3	na	na
National Aeronautics and Space Administration	12,404	12,595	10,717	13,570	10,538	11,215	11,623	11,715	10,905	10,936
National Archives and Records Administration	1	1	1	1	0	NA	NA	NA	NA	NA
National Science Foundation	5,589	5,518	5,849	5,996	6,351	6,705	6,896	7,490	6,995	6,825
Nuclear Regulatory Commission	81	67	78	75	69	80	61	47	73	41
Patient-Centered Outcomes Research Trust Fund	115	884	492	578	470	460	522	553	605	583
Postal Service	29	73	53	27	18	15	14	7	5	3

Table 73. Federal obligations for research and development, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
RESTORE Act Centers of Excellence Research Grants Program	na	na	na	na	9	0	7	23	7	5
Smithsonian Institution	206	208	228	236	210	63	227	242	168	182
Social Security Administration	129	110	72	146	70	105	79	96	97	58
Tennessee Valley Authority	NA	6	13	10	8	17	28	111	117	85

* = amount greater than \$0 but less than \$500,000. na = not applicable; data were not collected at this level of detail for this agency or subagency. NA = not available; agency did not provide data.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. Beginning with FY 2016, the totals reported for development obligations represent a refinement to this category by more narrowly defining it to be "experimental development." Most notably, totals for development do not include the Department of Defense (DOD) Budget Activity 7 (Operational System Development) nor Budget Activity 8 (Software and Digital Technology Pilot Programs) obligations. Those funds, previously included in DOD's development obligation totals, support the development efforts to upgrade systems that have been fielded or have received approval for full-rate production and anticipate production funding in the current or subsequent fiscal year. Therefore, the data are not directly comparable with totals reported in previous years. FYs 2020, 2021, and 2022 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 74. Federal obligations for R&D plant, by agency: FYs 2005–15

(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
All agencies	3,771	2,125	2,168	1,944	3,668	6,613	4,171	2,146	1,905	2,218	2,825
Departments											
Department of Agriculture	134	173	124	44	77	251	36	16	12	11	11
Agricultural Research Service	119	159	99	23	46	181	19	5	3	1	1
Forest Service	15	14	25	21	32	70	17	10	8	7	8
Grain Inspection, Packers, and Stockyards Administration	0	0	0	0	0	0	0	2	2	2	2
Department of Commerce	61	75	118	152	386	409	242	176	202	193	188
Economic Development Administration	0	0	0	18	25	12	15	NA	NA	NA	NA
National Institute of Standards and Technology	44	43	51	87	105	237	90	35	74	63	40
National Oceanic and Atmospheric Administration	16	31	66	46	256	159	137	141	128	129	148
Department of Defense	273	63	79	163	117	153	170	170	97	148	169
Defense agencies and activities	82	35	36	41	1	*	na	na	na	na	na
Department of the Air Force	107	11	28	107	101	127	141	143	75	121	123
Department of the Navy	84	17	15	16	15	25	22	25	20	24	36
Other defense agencies	na	na	na	na	na	na	7	2	1	4	11
Department of Energy	863	778	752	752	1,672	959	735	683	556	770	952
Energy Efficiency and Renewable Energy	19	26	107	65	207	103	39	0	4	4	4
Fossil Energy	6	19	12	13	19	19	19	16	15	16	16
National Nuclear Security Administration	303	305	192	263	168	190	128	93	75	116	256
Defense Programs	268	272	171	232	132	159	96	53	75	94	101
Naval Nuclear Propulsion Program	35	33	21	31	36	31	33	40	*	22	155
Office of Science	534	428	442	410	1,278	647	548	574	462	635	676
Department of Health and Human Services	427	361	255	147	152	1,682	79	140	130	143	153
Centers for Disease Control and Prevention	0	144	134	6	0	0	0	0	0	0	0
Food and Drug Administration	1	4	8	5	5	13	8	6	4	6	7
Health Resources and Services Administration	1	1	1	1	1	1	1	1	1	1	1
National Institutes of Health	426	213	111	135	146	1,669	70	133	126	136	146
Department of Homeland Security	92	132	244	220	311	458	568	230	328	361	903
Coast Guard	1	*	1	*	1	1	1	1	1	1	1
Science and Technology Directorate	91	131	243	219	310	457	567	229	327	360	902
Department of the Interior	7	5	10	9	6	6	11	5	8	5	9
Bureau of Ocean Energy Management	3	3	3	3	2	3	7	0	0	0	0
Bureau of Reclamation	5	2	7	6	5	4	4	2	3	2	3
Bureau of Safety and Environmental Enforcement	NA	NA	NA	NA	NA	NA	NA	3	5	3	6
Department of Justice	0	0	8	1	0	0	0	0	0	0	0
Office of Justice Programs	0	0	8	1	0	0	0	0	0	0	0
Department of Transportation	18	19	20	19	20	21	20	38	21	20	29
Federal Aviation Administration	17	17	18	17	18	18	18	31	19	16	26

Table 74. Federal obligations for R&D plant, by agency: FYs 2005–15

(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Federal Railroad Administration	1	2	2	2	2	3	3	6	2	3	3
Department of the Treasury	0	4	2	0	0	0	0	0	0	0	0
Mint	0	4	2	0	0	0	0	0	0	0	0
Department of Veterans Affairs	*	*	*	*	0	0	0	0	0	0	0
Other agencies											
Environmental Protection Agency	0	0	0	0	0	0	5	5	7	7	5
National Aeronautics and Space Administration	1,534	39	80	20	21	1,570	1,859	98	126	127	52
National Science Foundation	355	449	437	371	830	1,058	391	536	373	397	320
Smithsonian Institution	6	27	41	46	75	46	56	49	45	36	33

* = amount greater than \$0 but less than \$500,000. na = not applicable; data were not collected at this level of detail for this agency or subagency. NA = not available; agency did not provide data.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. FYs 2009 and 2010 obligations include additional funding provided by the American Recovery and Reinvestment Act of 2009. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 75. Federal obligations for R&D plant, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
All agencies	2,441	2,652	3,853	4,376	6,150	4,282	6,173	5,664	5,212	4,647
Departments										
Department of Agriculture	23	157	44	29	790	57	179	64	138	61
Agricultural Research Service	8	147	28	19	780	46	170	48	137	61
Forest Service	13	9	16	10	9	12	9	14	0	0
Grain Inspection, Packers, and Stockyards Administration	2	*	na	na	na	na	na	na	na	na
Natural Resources Conservation Service	NA	NA	NA	NA	NA	*	0	1	*	*
Department of Commerce	285	235	394	464	359	429	379	810	911	667
National Institute of Standards and Technology	121	91	105	119	143	251	96	143	135	99
National Oceanic and Atmospheric Administration	164	144	288	345	216	178	282	666	653	565
National Telecommunications and Information Administration	0	0	0	0	0	0	2	1	122	3
Department of Defense	178	291	471	610	312	169	256	291	235	231
Defense Health Agency	NA	NA	NA	NA	15	0	0	0	0	0
Department of the Air Force	120	225	210	193	241	121	131	219	176	173
Air Force	120	225	210	193	241	121	131	219	176	172
Space Force	na	na	na	na	0	0	0	0	*	1
Department of the Army	1	0	0	0	0	NA	0	0	0	0
Department of the Navy	38	49	79	143	45	37	63	58	50	50
Other defense agencies	19	18	182	274	11	10	62	14	9	8
Department of Energy	1,135	1,276	2,062	2,245	2,325	2,668	4,280	3,292	2,915	2,731
Energy Efficiency and Renewable Energy	4	4	227	305	53	42	49	89	58	58
Fossil Energy	0	16	21	23	29	29	29	25	25	25
National Nuclear Security Administration	251	305	474	337	574	967	1,208	1,096	1,012	970
Defense Programs	91	105	259	337	327	617	618	495	591	556
Naval Nuclear Propulsion Program	160	200	214	0	247	331	575	577	255	248
Office of Defense Nuclear Nonproliferation	0	0	0	0	0	19	15	24	166	166
Nuclear Energy	0	0	0	0	0	0	372	477	330	343
Office of Science	880	951	1,340	1,580	1,669	1,630	2,622	1,604	1,489	1,336
Department of Health and Human Services	151	128	204	243	1,769	399	291	484	389	387
Biomedical Advanced Research and Development Authority	NA	NA	NA	0	1,296	160	1	61	2	*
Food and Drug Administration	5	5	7	26	20	8	10	16	4	4
Health Resources and Services Administration	1	0	0	0	0	1	0	2	3	4
National Institutes of Health	145	123	197	217	453	229	280	405	380	380
Department of Homeland Security	117	13	1	1	0	20	11	16	4	6
Coast Guard	1	1	1	1	0	0	0	0	1	0
Science and Technology Directorate	116	12	0	0	0	19	11	15	2	4
Secret Service	NA	NA	0	0	0	0	0	0	0	1
Transportation Security Administration	NA	NA	0	0	0	1	0	1	1	1

Table 75. Federal obligations for R&D plant, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
Department of the Interior	3	5	3	5	7	13	7	6	9	9
Bureau of Reclamation	1	1	1	1	2	2	2	2	3	2
Bureau of Safety and Environmental Enforcement	2	4	2	3	5	11	5	4	6	7
Department of Transportation	25	38	31	39	40	37	38	35	37	37
Federal Aviation Administration	22	37	28	37	38	35	33	31	28	29
Federal Highway Administration	0	0	0	0	0	0	0	1	*	*
Federal Railroad Administration	2	2	2	2	2	1	4	3	9	8
National Highway Traffic Safety Administration	0	0	0	0	0	1	1	0	0	0
Department of the Treasury	0	0	0	4	0	0	0	0	0	0
Bureau of Engraving and Printing	0	0	0	2	0	0	0	0	0	0
Mint	0	0	0	2	0	0	0	0	0	0
Other agencies										
Environmental Protection Agency	5	5	5	5	4	6	6	2	5	3
National Aeronautics and Space Administration	58	43	97	46	36	52	127	109	63	26
National Science Foundation	433	428	509	652	441	433	529	481	508	489
Smithsonian Institution	29	33	33	33	66	0	70	74	0	0

* = amount greater than \$0 but less than \$500,000. na = not applicable; data were not collected at this level of detail for this agency or subagency. NA = not available; agency did not provide data.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. FYs 2020, 2021, and 2022 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 76. Federal obligations for research, by agency: FYs 2005–15

(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
All agencies	53,738	53,536	54,094	53,894	63,692	63,728	58,065	61,986	59,533	63,191	63,825
Departments											
Department of Agriculture	2,003	2,031	2,068	2,020	2,076	2,141	2,125	1,964	1,868	2,060	2,128
Agricultural Marketing Service	8	6	6	3	2	2	2	2	2	3	3
Agricultural Research Service	997	1,021	1,028	1,010	1,027	1,060	1,020	981	913	1,010	1,018
Animal and Plant Health Inspection Service	0	0	0	0	0	0	0	0	18	19	20
Economic Research Service	74	75	92	78	79	86	81	77	71	78	85
Foreign Agricultural Service	2	1	1	*	*	*	1	1	1	*	1
Forest Service	255	264	280	256	298	283	282	272	301	277	260
Grain Inspection, Packers, and Stockyards Administration	7	7	7	7	7	6	7	5	5	6	6
National Agricultural Statistics Service	6	7	7	7	7	7	7	7	7	5	5
National Institute of Food and Agriculture	652	645	627	655	652	690	724	614	546	657	726
Rural Business-Cooperative Service	4	4	21	4	4	5	2	4	4	6	4
Department of Commerce	889	840	929	964	959	1,135	941	989	1,023	1,277	1,154
Census Bureau	4	6	5	5	6	9	11	77	115	227	41
Economic Development Administration	*	*	1	2	3	7	1	NA	NA	NA	NA
National Institute of Standards and Technology	358	355	415	407	479	653	473	507	526	599	631
National Oceanic and Atmospheric Administration	520	472	500	543	464	458	449	396	375	442	470
National Telecommunications and Information Administration	7	7	7	7	7	8	8	8	7	10	12
Department of Defense	5,931	5,752	6,394	6,581	6,792	7,065	6,596	6,662	5,955	6,704	6,691
Defense Advanced Research Projects Agency	na	na	na	na	na	na	1,384	1,496	1,268	1,536	1,485
Defense agencies and activities	1,752	1,741	1,867	2,031	2,207	2,444	na	na	na	na	na
Department of the Air Force	1,246	1,351	1,540	1,592	1,604	1,678	1,674	1,726	1,502	1,574	1,609
Department of the Army	1,700	1,453	1,721	1,631	1,667	1,675	1,478	1,333	1,257	1,418	1,390
Department of the Navy	1,233	1,208	1,266	1,327	1,314	1,268	1,295	1,414	1,296	1,483	1,465
Other defense agencies	na	na	na	na	na	na	764	693	633	693	742
Department of Education	214	216	212	204	203	225	213	208	202	208	160
Department of Energy	5,704	5,720	5,857	6,100	7,188	7,598	7,350	7,361	7,333	8,092	8,642
Advanced Research Projects Agency—Energy	NA	NA	NA	0	0	205	128	56	92	150	139
Bonneville Power Administration	9	10	9	11	7	12	5	5	13	7	7
Civilian Radioactive Waste Management	54	53	11	1	*	0	0	0	0	0	0
Electricity Delivery and Energy Reliability	66	93	57	27	62	73	62	64	53	65	63
Energy Efficiency and Renewable Energy	272	211	343	429	653	912	468	441	530	540	473
Environmental Management	15	10	2	2	11	31	22	15	3	16	8
Fossil Energy	216	218	217	183	246	218	185	165	154	162	199
National Nuclear Security Administration	2,277	2,219	2,154	2,178	2,061	1,951	2,250	2,339	2,404	2,770	2,705
Defense Programs	2,193	2,076	2,028	1,967	1,796	1,710	1,975	2,143	2,148	2,519	2,527
Office of Defense Nuclear Nonproliferation	84	143	126	211	266	241	276	195	256	251	178

Table 76. Federal obligations for research, by agency: FYs 2005–15

(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Nuclear Energy	83	87	71	130	116	301	327	336	236	296	639
Office of Science	2,712	2,818	2,993	3,137	4,031	3,895	3,904	3,940	3,848	4,085	4,409
Department of Health and Human Services	28,617	28,680	29,211	29,459	35,490	35,797	30,771	31,124	29,315	30,587	30,197
Administration for Children and Families	39	14	12	19	14	7	10	8	2	3	2
Administration for Community Living	3	3	0	0	0	0	0	0	0	0	72
Agency for Healthcare Research and Quality	293	293	293	308	348	789	341	337	336	335	335
Agency for Toxic Substances and Disease Registry	9	9	4	4	5	3	5	1	1	1	2
Centers for Disease Control and Prevention	511	545	527	511	389	410	348	481	334	379	460
Centers for Medicare and Medicaid Services	77	62	57	31	30	82	35	21	20	34	24
Food and Drug Administration	142	143	129	138	166	211	225	353	361	389	376
Health Resources and Services Administration	18	17	17	22	23	30	27	27	27	28	27
National Institutes of Health	27,500	27,566	28,146	28,404	34,494	34,213	29,760	29,877	28,215	29,400	28,880
Office of the Secretary of Health and Human Services	25	27	24	22	20	54	20	19	19	19	18
Office of the Assistant Secretary for Planning and Evaluation	25	27	24	22	20	54	20	19	19	19	18
Department of Homeland Security	597	606	542	325	347	322	248	307	141	256	217
Coast Guard	5	7	5	7	7	8	7	12	7	8	6
Countering Weapons of Mass Destruction Office	NA	NA	NA	NA	NA	NA	NA	NA	NA	79	37
Science and Technology Directorate	411	596	536	318	340	314	241	294	134	168	173
Secret Service	1	1	1	1	NA	NA	NA	NA	NA	NA	NA
Transportation Security Administration	180	3	0	0	NA	NA	NA	NA	NA	NA	NA
Department of Housing and Urban Development	16	12	14	10	12	39	49	63	44	36	38
Department of the Interior	531	551	554	566	658	644	629	624	603	649	680
Bureau of Land Management	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15
Bureau of Ocean Energy Management	27	29	25	32	36	43	45	39	40	48	44
Bureau of Reclamation	4	3	3	3	3	7	9	7	8	9	7
Bureau of Safety and Environmental Enforcement	NA	NA	NA	NA	NA	NA	NA	8	15	33	17
Fish and Wildlife Service	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	30
Geological Survey	497	515	519	524	608	587	567	565	535	546	560
National Park Service	3	4	7	7	11	6	8	5	6	14	8
Department of Justice	58	53	62	78	81	87	84	75	78	142	128
Bureau of Prisons	4	3	4	3	3	3	3	2	2	2	3
Federal Bureau of Investigation	0	0	0	0	0	0	8	7	7	0	0
Office of Justice Programs	53	50	58	74	78	85	73	67	69	140	126
Department of Labor	36	30	48	41	29	12	53	19	14	11	10
Bureau of Labor Statistics	23	23	24	24	0	NA	NA	NA	NA	NA	NA
Employee Benefits Security Administration	3	3	2	2	2	6	49	13	10	7	7
Employment and Training Administration	7	1	19	11	22	NA	NA	NA	NA	NA	NA
Occupational Safety and Health Administration	3	4	3	4	4	6	4	6	4	4	3

Table 76. Federal obligations for research, by agency: FYs 2005–15

(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Office of the Secretary of Labor	1	*	*	0	NA	0	0	NA	NA	NA	NA
Pension Benefit Guaranty Corporation	*	*	*	*	*	*	*	*	*	*	*
Department of State	3	4	4	4	4	3	3	2	1	NA	2
Department of Transportation	255	535	590	634	587	646	637	698	655	653	663
Federal Aviation Administration	128	137	128	140	163	237	210	216	197	197	207
Federal Highway Administration	52	288	348	347	317	296	300	349	327	339	273
Federal Motor Carrier Safety Administration	7	5	9	8	7	7	6	7	7	7	8
Federal Railroad Administration	26	41	31	38	8	10	20	28	39	30	33
Federal Transit Administration	*	4	3	4	4	20	23	25	14	8	72
National Highway Traffic Safety Administration	40	58	64	83	82	71	71	69	65	65	63
Office of the Secretary of Transportation	0	0	0	0	0	0	0	0	0	4	2
Pipeline and Hazardous Materials Safety Administration	2	2	4	3	2	2	3	2	2	2	5
Research and Innovative Technology Administration	*	1	2	11	4	4	3	3	3	NA	NA
Department of the Treasury	63	61	59	65	67	68	77	75	73	73	73
Bureau of Engraving and Printing	6	5	4	5	2	1	5	5	9	9	9
Internal Revenue Service	58	55	55	60	65	66	71	69	65	64	64
Mint	0	0	0	0	0	1	1	2	*	1	*
Department of Veterans Affairs	383	392	425	457	477	529	575	577	604	553	643
Other agencies											
Agency for Global Media	*	*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agency for International Development	217	215	234	124	160	84	119	77	125	60	212
Appalachian Regional Commission	1	1	1	1	1	1	*	1	*	1	*
Consumer Product Safety Commission	NA	NA	NA	NA	NA	NA	NA	2	1	2	2
Environmental Protection Agency	525	505	492	450	468	485	491	491	446	453	440
Federal Communications Commission	5	7	6	7	7	4	4	4	5	7	5
Federal Trade Commission	1	2	2	3	2	3	3	3	3	3	2
Library of Congress	2	3	*	*	*	1	1	1	1	1	1
National Aeronautics and Space Administration	3,729	3,272	2,132	1,406	1,703	1,503	1,575	5,100	5,422	5,336	5,539
National Archives and Records Administration	*	*	*	5	5	5	3	2	1	1	1
National Science Foundation	3,743	3,791	3,970	4,135	6,095	5,016	5,146	5,170	4,956	5,403	5,670
Nuclear Regulatory Commission	70	71	77	61	61	85	84	83	76	85	92
Patient-Centered Outcomes Research Trust Fund	na	na	na	na	na	na	41	41	334	283	152
Postal Service	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28
Smithsonian Institution	109	119	145	142	152	167	193	197	195	195	196
Social Security Administration	35	68	68	54	68	63	53	65	57	60	59

* = amount greater than \$0 but less than \$500,000. na = not applicable; data were not collected at this level of detail for this agency or subagency. NA = not available; agency did not provide data.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. FYs 2009 and 2010 obligations include additional funding provided by the American Recovery and Reinvestment Act of 2009. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 77. Federal obligations for research, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
All agencies	67,105	69,871	74,588	81,118	85,305	85,915	93,832	101,256	99,556	95,241
Departments										
Department of Agriculture	2,156	2,216	2,257	2,407	2,388	2,661	2,860	3,225	3,199	3,010
Agricultural Marketing Service	3	4	4	4	3	7	10	7	15	9
Agricultural Research Service	1,030	1,053	1,081	1,163	1,281	1,359	1,486	1,570	1,609	1,611
Animal and Plant Health Inspection Service	20	19	18	19	19	21	24	25	34	29
Economic Research Service	85	86	86	86	82	85	88	93	91	91
Foreign Agricultural Service	*	*	0	0	0	0	0	NA	NA	NA
Forest Service	281	271	254	255	257	233	246	254	265	242
Grain Inspection, Packers, and Stockyards Administration	6	*	na	na	na	na	na	na	na	na
National Agricultural Statistics Service	5	5	5	5	5	5	6	6	5	5
National Institute of Food and Agriculture	721	774	805	871	738	937	986	1,249	1,090	1,000
Natural Resources Conservation Service	NA	NA	NA	NA	NA	12	15	21	91	23
Rural Business-Cooperative Service	4	3	4	4	3	0	0	NA	NA	NA
Department of Commerce	1,153	1,302	1,229	1,282	1,361	1,506	1,690	1,879	1,934	1,889
Census Bureau	90	56	56	29	38	56	150	151	195	195
National Institute of Standards and Technology	625	691	676	703	717	784	780	809	972	817
National Oceanic and Atmospheric Administration	428	547	488	542	598	659	748	909	763	873
National Telecommunications and Information Administration	11	8	9	8	8	7	11	11	4	5
Department of Defense	7,152	7,178	7,653	8,268	8,915	9,735	10,166	11,224	13,187	11,239
Defense Advanced Research Projects Agency	1,536	1,509	1,680	1,743	2,006	1,845	1,798	1,908	1,810	2,101
Defense Health Agency	NA	NA	NA	NA	164	133	145	310	600	510
Department of the Air Force	1,762	1,713	1,905	2,107	2,249	2,485	3,101	3,261	5,073	3,439
Air Force	1,762	1,713	1,905	2,107	2,249	2,387	2,926	3,261	5,042	3,401
Space Force	na	na	na	na	0	98	175	0	31	38
Department of the Army	1,522	1,684	1,689	1,956	1,907	1,914	1,804	2,165	2,049	1,604
Department of the Navy	1,560	1,540	1,549	1,591	1,698	1,654	1,739	1,946	2,047	1,968
Other defense agencies	771	732	829	871	892	1,704	1,579	1,635	1,608	1,617
Department of Education	163	174	190	189	189	262	299	283	351	351
Department of Energy	9,465	9,584	10,508	11,370	10,525	10,777	11,109	12,574	13,835	13,364
Advanced Research Projects Agency—Energy	172	151	80	202	219	157	201	235	248	345
Bonneville Power Administration	7	9	NA	NA	NA	NA	NA	NA	NA	NA
Electricity Delivery and Energy Reliability	69	80	94	87	78	62	61	61	83	85
Energy Efficiency and Renewable Energy	576	853	1,285	1,270	1,248	1,395	679	1,232	1,497	1,497
Environmental Management	10	10	13	9	7	10	12	12	11	13
Fossil Energy	231	230	662	659	679	691	559	1,012	1,484	1,160
National Nuclear Security Administration	3,210	3,078	2,645	3,670	2,394	2,608	2,794	2,788	2,965	2,941
Defense Programs	3,010	2,881	2,422	3,434	2,155	2,328	2,337	2,359	2,531	2,535

Table 77. Federal obligations for research, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
Naval Nuclear Propulsion Program	0	0	0	0	0	0	191	141	151	125
Office of Defense Nuclear Nonproliferation	199	197	223	236	239	280	266	288	284	281
Nuclear Energy	665	688	763	378	392	346	657	636	730	505
Office of Cybersecurity, Energy Security, and Emergency Response	na	na	0	40	37	2	21	106	104	138
Office of Science	4,524	4,485	4,968	5,054	5,470	5,506	6,124	6,491	6,713	6,680
Department of Health and Human Services	32,129	33,677	36,802	38,354	44,234	42,718	48,271	52,481	48,737	47,667
Administration for Children and Families	3	2	3	2	2	5	5	7	11	11
Administration for Community Living	66	66	66	66	71	107	107	113	113	112
Advanced Research Projects Agency for Health	NA	NA	NA	NA	NA	NA	NA	794	1,039	1,097
Agency for Healthcare Research and Quality	306	300	306	308	308	308	314	337	337	337
Agency for Toxic Substances and Disease Registry	2	3	3	7	10	11	12	19	3	3
Biomedical Advanced Research and Development Authority	NA	NA	NA	0	0	0	2,644	5,913	1,489	819
Centers for Disease Control and Prevention	494	436	386	366	441	682	550	444	364	353
Centers for Medicare and Medicaid Services	30	29	231	133	224	421	419	35	20	20
Food and Drug Administration	486	375	478	493	464	589	561	710	733	667
Health Resources and Services Administration	26	30	36	33	35	33	35	81	86	80
National Institutes of Health	30,698	32,419	35,276	36,929	42,664	40,546	43,589	43,994	44,508	44,129
Office of the Secretary of Health and Human Services	18	17	17	17	16	17	36	34	35	37
Office of the Assistant Secretary for Planning and Evaluation	18	17	17	17	16	17	36	34	35	37
Department of Homeland Security	208	276	369	280	225	238	330	256	237	226
Coast Guard	7	6	6	6	1	3	2	7	7	9
Countering Weapons of Mass Destruction Office	38	34	14	31	24	21	35	38	38	8
Cybersecurity and Infrastructure Security Agency	na	na	7	13	7	9	3	3	0	1
Science and Technology Directorate	163	235	342	229	193	204	287	207	192	205
Secret Service	NA	NA	0	0	0	0	*	*	*	2
Transportation Security Administration	NA	NA	0	0	0	1	2	0	0	0
Department of Housing and Urban Development	43	41	40	61	NA	NA	NA	NA	NA	NA
Department of the Interior	726	722	650	690	698	754	785	475	457	404
Bureau of Indian Affairs	NA	NA	5	5	*	5	5	5	5	5
Bureau of Land Management	17	17	14	14	14	9	11	13	17	12
Bureau of Ocean Energy Management	60	63	66	65	59	63	66	0	NA	NA
Bureau of Reclamation	19	23	17	17	19	18	18	28	26	27
Bureau of Safety and Environmental Enforcement	24	8	5	8	5	20	6	7	9	3
Fish and Wildlife Service	32	33	33	33	33	33	35	41	48	6
Geological Survey	566	569	501	539	558	579	617	376	346	344
National Park Service	8	9	10	10	10	27	27	5	6	6
Office of Surface Mining Reclamation and Enforcement	NA	NA	0	*	1	0	NA	NA	NA	NA
Department of Justice	157	87	91	105	85	80	104	104	123	121

Table 77. Federal obligations for research, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
Bureau of Prisons	3	2	1	1	2	1	2	2	2	2
Federal Bureau of Investigation	0	0	3	1	5	4	9	6	0	0
Office of Justice Programs	154	85	87	103	78	75	94	96	121	119
Department of Labor	6	5	5	4	5	3	4	2	2	2
Employee Benefits Security Administration	5	3	3	3	3	1	2	2	2	2
Occupational Safety and Health Administration	1	2	2	2	2	2	2	NA	NA	NA
Pension Benefit Guaranty Corporation	*	0	0	NA	NA	NA	NA	NA	NA	NA
Department of State	2	2	62	62	30	44	45	39	23	0
Department of Transportation	625	696	751	746	900	841	829	905	882	854
Federal Aviation Administration	207	212	195	193	247	267	261	231	205	211
Federal Highway Administration	247	305	420	415	472	373	342	392	395	391
Federal Motor Carrier Safety Administration	10	11	9	8	9	12	21	10	11	8
Federal Railroad Administration	31	34	33	32	35	35	32	46	29	15
Federal Transit Administration	35	55	10	3	40	42	12	6	38	5
National Highway Traffic Safety Administration	87	69	76	76	69	66	92	93	108	123
Office of the Secretary of Transportation	4	3	3	8	12	30	45	94	76	78
Pipeline and Hazardous Materials Safety Administration	5	5	6	11	17	16	24	33	21	22
Department of the Treasury	82	1	38	46	50	47	37	0	*	*
Bureau of Engraving and Printing	16	0	38	46	49	47	37	0	0	0
Internal Revenue Service	65	0	0	0	0	NA	NA	NA	NA	NA
Mint	2	1	0	*	*	*	0	0	*	*
Department of Veterans Affairs	677	669	1,320	1,478	1,536	1,561	1,606	1,880	1,833	1,844
Other agencies										
Administrative Office of the U.S. Courts	7	8	7	6	5	4	1	NA	NA	NA
Agency for Global Media	NA	NA	NA	6	5	5	8	9	9	0
Agency for International Development	148	192	120	172	135	51	153	200	200	0
Appalachian Regional Commission	1	*	1	1	1	1	1	2	1	*
Consumer Product Safety Commission	2	2	1	1	*	*	*	*	*	*
Environmental Protection Agency	430	417	413	405	412	403	406	445	415	415
Federal Communications Commission	5	6	5	2	2	0	NA	NA	NA	NA
Federal Trade Commission	3	6	6	6	6	8	3	3	1	*
Library of Congress	1	1	1	1	1	1	1	*	na	na
National Aeronautics and Space Administration	5,613	5,745	5,293	8,111	6,394	6,779	7,305	6,793	6,161	6,138
National Archives and Records Administration	1	1	1	1	0	NA	NA	NA	NA	NA
National Science Foundation	5,589	5,518	5,849	5,996	6,351	6,705	6,896	7,490	6,995	6,825
Nuclear Regulatory Commission	81	67	78	75	68	77	61	47	73	41
Patient-Centered Outcomes Research Trust Fund	115	884	492	578	470	460	522	553	605	583
Postal Service	29	73	53	27	18	15	14	7	5	3

Table 77. Federal obligations for research, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
RESTORE Act Centers of Excellence Research Grants Program	na	na	na	na	9	0	7	23	7	5
Smithsonian Institution	206	208	228	236	210	63	227	242	168	182
Social Security Administration	129	110	72	146	70	105	79	96	97	58
Tennessee Valley Authority	NA	3	6	6	6	9	12	18	18	21

* = amount greater than \$0 but less than \$500,000. na = not applicable; data were not collected at this level of detail for this agency or subagency. NA = not available; agency did not provide data.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. FYs 2020, 2021, and 2022 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). For additional notes associated with the agencies listed in this table, see [technical table A-2 at https://ncses.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables](https://ncses.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables).

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 78. Federal obligations for basic research, by agency: FYs 2005–15

(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Science and Technology Directorate	55	80	57	246	101	100	114	84	0	0	0
Secret Service	0	0	0	*	NA	NA	NA	NA	NA	NA	NA
Department of the Interior	36	42	42	43	47	50	49	54	51	52	53
Geological Survey	36	42	42	43	47	50	49	54	51	52	53
Department of Justice	17	18	24	0	9	13	18	15	21	8	5
Federal Bureau of Investigation	0	0	0	0	0	0	0	0	4	0	0
Office of Justice Programs	17	18	24	0	9	13	18	15	16	8	5
Department of Labor	14	14	14	14	0	NA	NA	NA	NA	NA	NA
Bureau of Labor Statistics	14	14	14	14	0	NA	NA	NA	NA	NA	NA
Department of Transportation	0	2	3	0	0	5	4	8	7	9	0
Federal Highway Administration	0	2	3	0	0	5	4	8	7	1	0
Federal Transit Administration	0	0	0	0	0	0	0	0	0	8	0
Department of the Treasury	*	*	*	*	*	*	*	*	*	*	*
Bureau of Engraving and Printing	*	*	*	*	*	*	*	*	*	*	*
Department of Veterans Affairs	177	181	196	211	203	232	251	251	249	232	227
Other agencies											
Agency for International Development	18	18	2	3	1	1	0	0	9	1	0
Environmental Protection Agency	109	104	101	78	84	87	88	87	0	0	0
National Aeronautics and Space Administration	2,240	1,803	1,313	875	1,022	809	857	2,606	2,824	3,023	3,210
National Science Foundation	3,411	3,504	3,618	3,716	5,624	4,667	4,691	4,652	4,362	4,725	4,974
Smithsonian Institution	109	119	145	142	152	167	193	197	195	195	196

* = amount greater than \$0 but less than \$500,000. na = not applicable; data were not collected at this level of detail for this agency or subagency. NA = not available; agency did not provide data.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. FYs 2009 and 2010 obligations include additional funding provided by the American Recovery and Reinvestment Act of 2009. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 79. Federal obligations for basic research, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
All agencies	32,293	33,271	36,195	40,017	41,547	42,266	45,414	46,981	47,494	45,361
Departments										
Department of Agriculture	935	965	986	1,057	1,164	1,299	1,417	1,598	1,555	1,499
Agricultural Research Service	572	585	600	646	712	755	825	872	894	895
Animal and Plant Health Inspection Service	20	19	18	19	19	21	24	25	11	9
Foreign Agricultural Service	*	*	0	0	0	0	0	NA	NA	NA
Forest Service	91	89	84	85	85	79	85	88	109	99
National Institute of Food and Agriculture	252	273	283	307	348	432	468	602	541	496
Natural Resources Conservation Service	NA	NA	NA	NA	NA	11	15	11	*	0
Department of Commerce	247	246	227	253	251	278	273	302	355	298
National Institute of Standards and Technology	247	246	227	253	251	278	273	302	355	298
Department of Defense	2,239	2,110	2,390	2,510	2,499	2,835	3,150	3,469	4,693	3,014
Defense Advanced Research Projects Agency	378	391	458	478	482	510	440	464	352	398
Defense Health Agency	NA	NA	NA	NA	11	18	11	49	49	40
Department of the Air Force	522	469	564	559	520	801	1,041	1,034	2,716	996
Air Force	522	469	564	559	520	703	970	1,034	2,684	958
Space Force	na	na	na	na	0	98	71	0	31	38
Department of the Army	462	450	472	495	524	542	514	602	524	494
Department of the Navy	637	569	596	656	641	631	662	718	685	660
Other defense agencies	240	230	299	322	321	333	482	602	366	425
Department of Education	23	33	55	57	54	30	32	32	28	28
Department of Energy	4,586	4,500	5,001	5,075	5,502	5,500	6,108	6,470	6,681	6,815
Bonneville Power Administration	4	5	NA	NA	NA	NA	NA	NA	NA	NA
Electricity Delivery and Energy Reliability	3	6	13	15	13	13	8	7	15	13
Fossil Energy	6	6	33	33	34	2	0	0	0	0
National Nuclear Security Administration	83	81	88	102	114	123	121	124	128	123
Office of Defense Nuclear Nonproliferation	83	81	88	102	114	123	121	124	128	123
Nuclear Energy	35	0	0	0	0	0	0	0	0	0
Office of Cybersecurity, Energy Security, and Emergency Response	na	na	0	1	1	2	5	27	0	0
Office of Science	4,455	4,402	4,867	4,924	5,339	5,361	5,973	6,312	6,538	6,680
Department of Health and Human Services	15,645	16,700	18,241	19,100	21,809	21,508	22,411	22,738	22,795	22,459
Agency for Toxic Substances and Disease Registry	0	0	1	0	0	0	0	0	0	0
Centers for Disease Control and Prevention	85	72	64	77	70	89	90	87	85	62
Centers for Medicare and Medicaid Services	0	0	0	0	0	421	419	35	20	20
Health Resources and Services Administration	3	3	3	3	2	3	2	34	34	34
National Institutes of Health	15,558	16,625	18,173	19,020	21,737	20,995	21,899	22,581	22,656	22,343
Department of Homeland Security	13	12	61	46	47	51	69	76	72	45
Coast Guard	0	0	0	0	0	0	0	2	0	0

Table 79. Federal obligations for basic research, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
Countering Weapons of Mass Destruction Office	13	12	5	5	6	6	9	12	13	4
Science and Technology Directorate	0	0	55	41	41	45	60	62	59	40
Secret Service	NA	NA	0	0	0	0	*	*	*	1
Department of Housing and Urban Development	0	0	0	39	NA	NA	NA	NA	NA	NA
Department of the Interior	54	54	80	81	84	86	94	44	44	43
Bureau of Land Management	0	0	1	1	0	*	2	2	2	2
Bureau of Safety and Environmental Enforcement	0	0	1	*	1	2	1	1	1	1
Geological Survey	54	54	77	80	82	84	91	42	41	40
National Park Service	0	0	1	1	1	0	0	0	0	0
Department of Justice	13	2	16	21	1	8	17	17	14	14
Office of Justice Programs	13	2	16	21	1	8	17	17	14	14
Department of State	0	0	0	0	0	4	7	6	1	0
Department of Transportation	0	0	0	0	0	2	23	38	127	143
Federal Highway Administration	0	0	0	0	0	0	0	0	0	1
Federal Motor Carrier Safety Administration	0	0	0	0	0	1	0	1	0	0
National Highway Traffic Safety Administration	0	0	0	0	0	0	0	0	44	58
Office of the Secretary of Transportation	0	0	0	0	0	0	21	37	76	78
Pipeline and Hazardous Materials Safety Administration	0	0	0	0	0	1	2	*	7	7
Department of the Treasury	2	0	11	10	6	5	0	0	0	0
Bureau of Engraving and Printing	2	0	11	10	6	5	0	0	0	0
Mint	0	0	0	*	*	0	0	0	0	0
Department of Veterans Affairs	219	274	528	629	618	625	665	842	795	800
Other agencies										
Agency for International Development	0	1	0	0	*	0	0	3	3	0
Federal Communications Commission	0	*	0	0	0	0	NA	NA	NA	NA
National Aeronautics and Space Administration	3,281	3,426	3,282	5,689	3,839	4,201	5,058	4,798	4,356	4,413
National Science Foundation	4,829	4,739	5,089	5,212	5,462	5,771	5,863	6,305	5,805	5,608
Nuclear Regulatory Commission	*	1	1	1	2	0	0	0	0	0
Smithsonian Institution	206	208	228	236	210	63	227	242	168	182

* = amount greater than \$0 but less than \$500,000. na = not applicable; data were not collected at this level of detail for this agency or subagency. NA = not available; agency did not provide data.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. FYs 2020, 2021, and 2022 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). For additional notes associated with the agencies listed in this table, see [technical table A-2 at https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables).

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 80. Federal obligations for applied research, by agency: FYs 2005–15

(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
All agencies	26,598	26,951	27,228	26,740	30,813	31,933	28,751	31,027	29,753	31,604	32,298
Departments											
Department of Agriculture	1,049	1,085	1,130	1,136	1,145	1,159	1,162	1,113	1,024	1,152	1,204
Agricultural Marketing Service	8	6	6	3	2	2	2	2	2	3	3
Agricultural Research Service	454	465	468	460	456	471	453	436	406	449	453
Economic Research Service	67	68	83	73	71	85	74	70	64	71	85
Foreign Agricultural Service	1	1	*	*	*	*	*	*	*	*	*
Forest Service	133	138	192	173	192	184	192	187	205	187	176
Grain Inspection, Packers, and Stockyards Administration	7	7	0	0	0	0	0	5	5	6	6
National Agricultural Statistics Service	4	5	5	4	4	4	4	4	4	5	5
National Institute of Food and Agriculture	372	391	354	418	415	407	435	403	333	426	472
Rural Business-Cooperative Service	4	4	21	4	4	5	2	4	4	6	4
Department of Commerce	830	767	826	853	821	933	775	814	833	1,063	922
Census Bureau	4	6	5	5	6	9	11	77	115	227	41
Economic Development Administration	*	*	1	1	1	1	*	NA	NA	NA	NA
National Institute of Standards and Technology	299	283	312	297	343	457	308	333	335	385	399
National Oceanic and Atmospheric Administration	520	472	500	543	464	458	449	396	375	442	470
National Telecommunications and Information Administration	7	7	7	7	7	8	8	8	7	10	12
Department of Defense	4,532	4,448	4,867	4,964	5,062	5,212	4,710	4,627	4,093	4,631	4,558
Defense Advanced Research Projects Agency	na	na	na	na	na	na	1,130	1,151	983	1,189	1,125
Defense agencies and activities	1,595	1,580	1,631	1,720	1,864	2,029	na	na	na	na	na
Department of the Air Force	877	1,000	1,118	1,192	1,172	1,203	1,203	1,223	1,055	1,072	1,108
Department of the Army	1,303	1,104	1,337	1,239	1,236	1,261	1,063	915	859	983	942
Department of the Navy	757	763	781	814	790	720	748	826	740	872	845
Other defense agencies	na	na	na	na	na	na	566	511	455	515	539
Department of Education	204	213	207	200	198	218	206	202	178	183	137
Department of Energy	2,957	2,886	2,849	2,919	3,127	3,629	3,388	3,404	3,482	4,017	4,181
Advanced Research Projects Agency—Energy	NA	NA	NA	0	0	205	128	56	92	150	139
Bonneville Power Administration	9	10	9	11	6	4	1	1	4	3	3
Civilian Radioactive Waste Management	54	53	11	1	*	0	0	0	0	0	0
Electricity Delivery and Energy Reliability	66	93	57	27	62	66	55	58	50	61	57
Energy Efficiency and Renewable Energy	249	210	342	417	651	891	466	434	530	540	473
Environmental Management	15	10	2	2	11	31	22	15	3	16	8
Fossil Energy	207	211	211	179	242	213	181	161	151	157	194
National Nuclear Security Administration	2,274	2,211	2,146	2,151	2,039	1,918	2,208	2,293	2,355	2,714	2,637
Defense Programs	2,193	2,076	2,028	1,967	1,796	1,710	1,975	2,143	2,142	2,519	2,527
Office of Defense Nuclear Nonproliferation	81	135	117	184	244	207	234	150	213	195	111
Nuclear Energy	83	87	71	130	116	301	327	336	236	296	597

Table 80. Federal obligations for applied research, by agency: FYs 2005–15

(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Office of Science	0	0	0	0	0	0	0	49	63	79	75
Department of Health and Human Services	12,831	13,140	13,438	13,428	16,718	17,148	14,704	15,147	14,026	14,582	15,120
Administration for Children and Families	39	14	12	19	14	7	10	8	2	3	2
Administration for Community Living	3	3	0	0	0	0	0	0	0	0	72
Agency for Healthcare Research and Quality	293	293	293	308	348	789	341	337	336	335	335
Agency for Toxic Substances and Disease Registry	9	9	4	4	5	3	5	1	1	1	2
Centers for Disease Control and Prevention	511	545	389	389	281	324	283	407	277	309	365
Centers for Medicare and Medicaid Services	77	62	57	31	30	82	35	21	20	34	24
Food and Drug Administration	142	143	129	138	166	211	225	353	361	389	376
Health Resources and Services Administration	15	15	14	19	21	27	24	24	24	25	25
National Institutes of Health	11,717	12,029	12,515	12,498	15,833	15,651	13,761	13,976	12,987	13,467	13,901
Office of the Secretary of Health and Human Services	25	27	24	22	20	54	20	19	19	19	18
Office of the Assistant Secretary for Planning and Evaluation	25	27	24	22	20	54	20	19	19	19	18
Department of Homeland Security	542	526	485	80	246	221	134	222	141	215	205
Coast Guard	5	7	5	7	7	8	7	12	7	8	6
Countering Weapons of Mass Destruction Office	NA	NA	NA	NA	NA	NA	NA	NA	NA	38	26
Science and Technology Directorate	356	516	479	73	239	214	127	210	134	168	173
Secret Service	1	1	1	1	NA	NA	NA	NA	NA	NA	NA
Transportation Security Administration	180	3	0	0	NA	NA	NA	NA	NA	NA	NA
Department of Housing and Urban Development	16	12	14	10	12	39	49	63	44	36	38
Department of the Interior	496	509	512	523	610	594	581	570	552	597	627
Bureau of Land Management	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15
Bureau of Ocean Energy Management	27	29	25	32	36	43	45	39	40	48	44
Bureau of Reclamation	4	3	3	3	3	7	9	7	8	9	7
Bureau of Safety and Environmental Enforcement	NA	NA	NA	NA	NA	NA	NA	8	15	33	17
Fish and Wildlife Service	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	30
Geological Survey	461	473	477	481	561	537	518	511	483	493	506
National Park Service	3	4	7	7	11	6	8	5	6	14	8
Department of Justice	40	35	38	78	72	74	67	60	57	134	123
Bureau of Prisons	4	3	4	3	3	3	3	2	2	2	3
Federal Bureau of Investigation	0	0	0	0	0	0	8	7	2	0	0
Office of Justice Programs	36	32	34	74	69	72	55	51	52	132	121
Department of Labor	22	17	34	27	29	12	53	19	14	11	10
Bureau of Labor Statistics	9	9	10	10	0	NA	NA	NA	NA	NA	NA
Employee Benefits Security Administration	3	3	2	2	2	6	49	13	10	7	7
Employment and Training Administration	7	1	19	11	22	NA	NA	NA	NA	NA	NA
Occupational Safety and Health Administration	3	4	3	4	4	6	4	6	4	4	3
Office of the Secretary of Labor	1	*	*	0	NA	0	0	NA	NA	NA	NA

Table 80. Federal obligations for applied research, by agency: FYs 2005–15

(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Pension Benefit Guaranty Corporation	*	*	*	*	*	*	*	*	*	*	*
Department of State	3	4	4	4	4	3	3	2	1	NA	2
Department of Transportation	255	534	587	634	587	641	633	690	647	644	663
Federal Aviation Administration	128	137	128	140	163	237	210	216	197	197	207
Federal Highway Administration	52	287	346	347	317	291	295	340	320	338	273
Federal Motor Carrier Safety Administration	7	5	9	8	7	7	6	7	7	7	8
Federal Railroad Administration	26	41	31	38	8	10	20	28	39	30	33
Federal Transit Administration	*	4	3	4	4	20	23	25	14	0	72
National Highway Traffic Safety Administration	40	58	64	83	82	71	71	69	65	65	63
Office of the Secretary of Transportation	0	0	0	0	0	0	0	0	0	4	2
Pipeline and Hazardous Materials Safety Administration	2	2	4	3	2	2	3	2	2	2	5
Research and Innovative Technology Administration	*	1	2	11	4	4	3	3	3	NA	NA
Department of the Treasury	63	60	59	64	67	68	77	75	73	73	72
Bureau of Engraving and Printing	5	5	4	5	2	1	5	5	8	9	9
Internal Revenue Service	58	55	55	60	65	66	71	69	65	64	64
Mint	0	0	0	0	0	1	1	2	*	1	*
Department of Veterans Affairs	206	211	228	246	274	297	325	326	355	322	416
Other agencies											
Agency for Global Media	*	*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agency for International Development	198	197	233	121	160	83	119	77	117	59	212
Appalachian Regional Commission	1	1	1	1	1	1	*	1	*	1	*
Consumer Product Safety Commission	NA	NA	NA	NA	NA	NA	NA	2	1	2	2
Environmental Protection Agency	416	400	392	372	384	398	403	404	446	453	440
Federal Communications Commission	5	7	6	7	7	4	4	4	5	7	5
Federal Trade Commission	1	2	2	3	2	3	3	3	3	3	2
Library of Congress	2	3	*	*	*	1	1	1	1	1	1
National Aeronautics and Space Administration	1,489	1,469	819	531	682	694	718	2,494	2,598	2,313	2,330
National Archives and Records Administration	*	*	*	5	5	5	3	2	1	1	1
National Science Foundation	332	287	352	420	471	348	455	517	594	678	696
Nuclear Regulatory Commission	70	71	77	61	61	85	84	83	76	85	92
Patient-Centered Outcomes Research Trust Fund	na	na	na	na	na	na	41	41	334	283	152
Postal Service	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28
Social Security Administration	35	68	68	54	68	63	53	65	57	60	59

* = amount greater than \$0 but less than \$500,000. na = not applicable; data were not collected at this level of detail for this agency or subagency. NA = not available; agency did not provide data.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. FYs 2009 and 2010 obligations include additional funding provided by the American Recovery and Reinvestment Act of 2009. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 81. Federal obligations for applied research, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
All agencies	34,812	36,600	38,392	41,101	43,758	43,649	48,418	54,274	52,062	49,879
Departments										
Department of Agriculture	1,221	1,251	1,270	1,350	1,225	1,362	1,443	1,627	1,643	1,510
Agricultural Marketing Service	3	4	4	4	3	7	10	7	15	9
Agricultural Research Service	458	468	480	517	569	604	660	698	715	716
Animal and Plant Health Inspection Service	0	0	0	0	0	0	0	0	22	20
Economic Research Service	85	86	86	86	82	85	88	93	91	91
Foreign Agricultural Service	*	*	0	0	0	0	0	NA	NA	NA
Forest Service	191	182	169	170	172	154	161	166	157	143
Grain Inspection, Packers, and Stockyards Administration	6	*	na	na	na	na	na	na	na	na
National Agricultural Statistics Service	5	5	5	5	5	5	6	6	5	5
National Institute of Food and Agriculture	469	502	521	564	390	505	518	647	549	504
Natural Resources Conservation Service	NA	NA	NA	NA	NA	1	1	10	91	23
Rural Business-Cooperative Service	4	3	4	4	3	0	0	NA	NA	NA
Department of Commerce	906	1,056	1,001	1,029	1,110	1,228	1,417	1,577	1,579	1,591
Census Bureau	90	56	56	29	38	56	150	151	195	195
National Institute of Standards and Technology	377	445	449	450	466	507	507	506	617	519
National Oceanic and Atmospheric Administration	428	547	488	542	598	659	748	909	763	873
National Telecommunications and Information Administration	11	8	9	8	8	7	11	11	4	5
Department of Defense	4,913	5,068	5,263	5,758	6,416	6,901	7,016	7,755	8,494	8,226
Defense Advanced Research Projects Agency	1,158	1,118	1,222	1,265	1,524	1,336	1,358	1,444	1,457	1,703
Defense Health Agency	NA	NA	NA	NA	153	115	135	261	551	471
Department of the Air Force	1,240	1,244	1,341	1,547	1,729	1,684	2,060	2,226	2,357	2,444
Air Force	1,240	1,244	1,341	1,547	1,729	1,684	1,956	2,226	2,357	2,444
Space Force	na	na	na	na	0	0	104	0	0	0
Department of the Army	1,060	1,233	1,217	1,462	1,383	1,372	1,290	1,563	1,525	1,109
Department of the Navy	924	971	953	935	1,057	1,023	1,077	1,228	1,362	1,308
Other defense agencies	531	502	530	549	571	1,371	1,096	1,033	1,242	1,191
Department of Education	140	141	135	131	136	233	267	251	323	323
Department of Energy	4,880	5,084	5,507	6,295	5,024	5,277	5,001	6,104	7,154	6,549
Advanced Research Projects Agency—Energy	172	151	80	202	219	157	201	235	248	345
Bonneville Power Administration	3	4	NA	NA	NA	NA	NA	NA	NA	NA
Electricity Delivery and Energy Reliability	67	74	82	72	65	50	53	55	68	73
Energy Efficiency and Renewable Energy	576	853	1,285	1,270	1,248	1,395	679	1,232	1,497	1,497
Environmental Management	10	10	13	9	7	10	12	12	11	13
Fossil Energy	225	224	629	626	645	689	559	1,012	1,484	1,160
National Nuclear Security Administration	3,127	2,997	2,556	3,568	2,279	2,485	2,672	2,664	2,837	2,819
Defense Programs	3,010	2,881	2,422	3,434	2,155	2,328	2,337	2,359	2,531	2,535

Table 81. Federal obligations for applied research, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
Naval Nuclear Propulsion Program	0	0	0	0	0	0	191	141	151	125
Office of Defense Nuclear Nonproliferation	117	116	135	134	124	157	144	164	156	158
Nuclear Energy	631	688	763	378	392	346	657	636	730	505
Office of Cybersecurity, Energy Security, and Emergency Response	na	na	0	39	36	0	16	79	104	138
Office of Science	70	83	101	130	131	144	151	178	175	0
Department of Health and Human Services	16,483	16,977	18,561	19,255	22,425	21,210	25,861	29,744	25,942	25,208
Administration for Children and Families	3	2	3	2	2	5	5	7	11	11
Administration for Community Living	66	66	66	66	71	107	107	113	113	112
Advanced Research Projects Agency for Health	NA	NA	NA	NA	NA	NA	NA	794	1,039	1,097
Agency for Healthcare Research and Quality	306	300	306	308	308	308	314	337	337	337
Agency for Toxic Substances and Disease Registry	2	3	2	7	10	11	12	19	3	3
Biomedical Advanced Research and Development Authority	NA	NA	NA	0	0	0	2,644	5,913	1,489	819
Centers for Disease Control and Prevention	409	364	322	289	371	592	461	357	279	291
Centers for Medicare and Medicaid Services	30	29	231	133	224	0	0	0	0	0
Food and Drug Administration	486	375	478	493	464	589	561	710	733	667
Health Resources and Services Administration	24	27	34	30	32	30	32	47	52	46
National Institutes of Health	15,140	15,794	17,103	17,909	20,927	19,551	21,689	21,413	21,852	21,787
Office of the Secretary of Health and Human Services	18	17	17	17	16	17	36	34	35	37
Office of the Assistant Secretary for Planning and Evaluation	18	17	17	17	16	17	36	34	35	37
Department of Homeland Security	194	264	309	233	178	187	261	180	165	181
Coast Guard	7	6	6	6	1	3	2	5	7	9
Countering Weapons of Mass Destruction Office	25	23	9	26	18	15	26	26	25	5
Cybersecurity and Infrastructure Security Agency	na	na	7	13	7	9	3	3	0	1
Science and Technology Directorate	163	235	286	188	152	159	227	145	132	165
Secret Service	NA	NA	0	0	0	0	0	0	0	1
Transportation Security Administration	NA	NA	0	0	0	1	2	0	0	0
Department of Housing and Urban Development	43	41	40	22	NA	NA	NA	NA	NA	NA
Department of the Interior	672	668	570	608	614	668	691	430	413	361
Bureau of Indian Affairs	NA	NA	5	5	*	5	5	5	5	5
Bureau of Land Management	17	17	13	13	14	9	9	11	15	11
Bureau of Ocean Energy Management	60	63	66	65	59	63	66	0	NA	NA
Bureau of Reclamation	19	23	17	17	19	18	18	28	26	27
Bureau of Safety and Environmental Enforcement	24	8	4	7	4	19	5	6	7	3
Fish and Wildlife Service	32	33	33	33	33	33	35	41	48	6
Geological Survey	512	515	424	459	476	495	527	334	305	304
National Park Service	8	9	9	9	9	27	27	5	6	6
Office of Surface Mining Reclamation and Enforcement	NA	NA	0	*	1	0	NA	NA	NA	NA
Department of Justice	144	85	75	84	84	72	88	86	109	107

Table 81. Federal obligations for applied research, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
Bureau of Prisons	3	2	1	1	2	1	2	2	2	2
Federal Bureau of Investigation	0	0	3	1	5	4	9	6	0	0
Office of Justice Programs	141	83	71	82	77	67	77	78	107	105
Department of Labor	6	5	5	4	5	3	4	2	2	2
Employee Benefits Security Administration	5	3	3	3	3	1	2	2	2	2
Occupational Safety and Health Administration	1	2	2	2	2	2	2	NA	NA	NA
Pension Benefit Guaranty Corporation	*	0	0	NA	NA	NA	NA	NA	NA	NA
Department of State	2	2	62	62	30	40	38	33	22	0
Department of Transportation	625	696	751	746	900	839	806	868	755	711
Federal Aviation Administration	207	212	195	193	247	267	261	231	205	211
Federal Highway Administration	247	305	420	415	472	373	342	392	395	390
Federal Motor Carrier Safety Administration	10	11	9	8	9	11	21	9	11	8
Federal Railroad Administration	31	34	33	32	35	35	32	46	29	15
Federal Transit Administration	35	55	10	3	40	42	12	6	38	5
National Highway Traffic Safety Administration	87	69	76	76	69	66	92	93	63	65
Office of the Secretary of Transportation	4	3	3	8	12	30	24	57	0	0
Pipeline and Hazardous Materials Safety Administration	5	5	6	11	17	15	22	32	14	15
Department of the Treasury	81	1	27	36	44	41	37	0	*	*
Bureau of Engraving and Printing	14	0	27	36	44	41	37	0	0	0
Internal Revenue Service	65	0	0	0	0	NA	NA	NA	NA	NA
Mint	2	1	0	*	*	*	0	0	*	*
Department of Veterans Affairs	458	395	792	849	918	936	941	1,038	1,038	1,044
Other agencies										
Administrative Office of the U.S. Courts	7	8	7	6	5	4	1	NA	NA	NA
Agency for Global Media	NA	NA	NA	6	5	5	8	9	9	0
Agency for International Development	148	191	120	172	135	51	153	197	197	0
Appalachian Regional Commission	1	*	1	1	1	1	1	2	1	*
Consumer Product Safety Commission	2	2	1	1	*	*	*	*	*	*
Environmental Protection Agency	430	417	413	405	412	403	406	445	415	415
Federal Communications Commission	5	6	5	2	2	0	NA	NA	NA	NA
Federal Trade Commission	3	6	6	6	6	8	3	3	1	*
Library of Congress	1	1	1	1	1	1	1	*	na	na
National Aeronautics and Space Administration	2,332	2,319	2,011	2,423	2,555	2,578	2,247	1,995	1,805	1,725
National Archives and Records Administration	1	1	1	1	0	NA	NA	NA	NA	NA
National Science Foundation	760	779	760	784	889	934	1,033	1,185	1,190	1,217
Nuclear Regulatory Commission	80	66	76	74	66	77	61	47	73	41
Patient-Centered Outcomes Research Trust Fund	115	884	492	578	470	460	522	553	605	583
Postal Service	29	73	53	27	18	15	14	7	5	3

Table 81. Federal obligations for applied research, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
RESTORE Act Centers of Excellence Research Grants Program	na	na	na	na	9	0	7	23	7	5
Social Security Administration	129	110	72	146	70	105	79	96	97	58
Tennessee Valley Authority	NA	3	6	6	6	9	12	18	18	21

* = amount greater than \$0 but less than \$500,000. na = not applicable; data were not collected at this level of detail for this agency or subagency. NA = not available; agency did not provide data.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. FYs 2020, 2021, and 2022 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). For additional notes associated with the agencies listed in this table, see [technical table A-2 at https://ncses.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables](https://ncses.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables).

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 82. Federal obligations for development, by agency: FYs 2005–15

(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Environmental Protection Agency	116	117	84	82	85	88	86	86	77	77	75
Federal Communications Commission	4	*	2	0	*	0	0	0	0	0	0
Library of Congress	7	4	7	1	*	1	1	1	1	1	1
National Aeronautics and Space Administration	3,666	3,939	3,994	4,422	4,234	5,618	4,996	5,560	4,946	5,418	5,821

* = amount greater than \$0 but less than \$500,000. na = not applicable; data were not collected at this level of detail for this agency or subagency. NA = not available; agency did not provide data.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. FYs 2009 and 2010 obligations include additional funding provided by the American Recovery and Reinvestment Act of 2009. For additional notes associated with the agencies listed in this table, see [technical table A-2 at https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables).

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 83. Federal obligations for development, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
All agencies	48,728	49,103	54,837	61,306	82,098	103,724	96,634	84,820	94,687	98,815
Departments										
Department of Agriculture	202	202	222	230	255	237	275	304	295	284
Agricultural Marketing Service	3	4	4	4	3	7	0	7	15	9
Agricultural Research Service	114	117	120	129	142	151	165	174	179	179
Animal and Plant Health Inspection Service	21	21	21	21	21	21	21	22	43	43
Forest Service	60	57	74	72	85	53	84	96	54	49
National Agricultural Statistics Service	4	4	4	4	4	4	5	5	4	4
Natural Resources Conservation Service	NA	NA	NA	NA	NA	1	*	0	*	0
Department of Commerce	198	310	210	253	261	307	321	469	731	7,959
Census Bureau	110	164	54	66	73	53	51	133	165	165
National Institute of Standards and Technology	5	25	10	9	17	101	82	90	341	7,184
National Oceanic and Atmospheric Administration	84	121	146	177	170	153	188	241	203	199
National Telecommunications and Information Administration	0	0	0	0	0	0	0	5	22	410
Department of Defense	37,597	37,695	45,321	50,511	57,780	60,971	62,186	74,312	84,669	82,114
Defense Advanced Research Projects Agency	1,397	1,385	1,338	1,578	1,658	1,761	1,811	1,872	2,367	2,303
Defense Health Agency	NA	NA	NA	NA	2,706	2,719	1,991	2,428	2,615	1,999
Department of the Air Force	5,559	6,386	9,298	12,970	13,820	15,247	15,748	20,449	25,179	26,795
Air Force	5,559	6,386	9,298	12,970	9,434	10,003	10,973	12,234	15,752	16,175
Space Force	na	na	na	na	4,386	5,243	4,776	8,216	9,427	10,620
Department of the Army	4,850	5,847	6,892	8,319	8,880	10,007	10,256	12,304	13,458	12,866
Department of the Navy	15,084	13,696	13,897	13,751	17,416	15,080	15,749	19,356	21,943	20,513
Other defense agencies	10,706	10,380	13,895	13,894	13,299	16,159	16,631	17,902	19,108	17,639
Department of Education	81	88	76	47	51	101	102	89	105	105
Department of Energy	2,743	2,724	2,324	3,007	2,928	2,676	2,589	3,571	3,058	2,668
Advanced Research Projects Agency—Energy	127	123	80	202	219	157	201	235	248	115
Bonneville Power Administration	9	5	NA	NA	NA	NA	NA	NA	NA	NA
Electricity Delivery and Energy Reliability	43	53	52	51	61	67	53	77	81	93
Energy Efficiency and Renewable Energy	711	588	401	425	848	719	931	1,701	977	977
Environmental Management	20	21	25	18	15	20	24	25	22	26
Fossil Energy	377	375	0	0	0	0	0	0	0	0
National Nuclear Security Administration	1,358	1,357	1,413	2,070	1,590	1,605	1,217	1,290	1,518	1,271
Defense Programs	97	85	150	226	143	375	501	473	597	372
Naval Nuclear Propulsion Program	1,216	1,220	1,206	1,789	1,387	1,140	616	700	807	780
Office of Defense Nuclear Nonproliferation	46	52	56	56	59	90	100	117	114	119
Nuclear Energy	97	203	353	228	181	108	147	200	211	186
Office of Cybersecurity, Energy Security, and Emergency Response	na	na	0	12	14	0	15	43	0	0
Department of Health and Human Services	87	97	110	837	15,772	33,933	25,825	47	56	52

Table 83. Federal obligations for development, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
Administration for Community Living	17	17	17	17	20	0	0	0	0	0
Agency for Healthcare Research and Quality	28	24	28	30	30	30	36	36	36	36
Biomedical Advanced Research and Development Authority	NA	NA	NA	736	15,666	33,881	25,769	0	0	0
Centers for Disease Control and Prevention	28	39	65	54	56	14	15	11	20	16
Health Resources and Services Administration	15	17	0	0	0	8	6	0	0	0
Department of Homeland Security	365	581	542	368	282	291	259	392	299	127
Coast Guard	16	15	15	14	3	7	5	0	*	1
Countering Weapons of Mass Destruction Office	25	35	16	50	14	11	31	28	15	7
Cybersecurity and Infrastructure Security Agency	na	na	0	0	1	3	2	5	0	0
Science and Technology Directorate	323	531	490	281	229	240	204	323	267	106
Secret Service	NA	NA	1	2	13	1	1	4	4	3
Transportation Security Administration	NA	NA	20	21	23	28	16	32	13	11
Department of Housing and Urban Development	24	23	22	0	NA	NA	NA	NA	NA	NA
Department of the Interior	131	141	116	137	139	148	155	41	37	42
Bureau of Land Management	1	1	7	7	7	1	1	*	*	2
Bureau of Ocean Energy Management	12	12	13	20	14	14	19	0	NA	NA
Bureau of Reclamation	2	5	5	7	8	20	10	4	4	5
Bureau of Safety and Environmental Enforcement	4	3	*	2	3	*	3	3	*	2
Geological Survey	111	119	91	101	107	112	120	34	32	32
National Park Service	1	1	0	0	0	1	1	0	NA	0
Department of Justice	51	40	15	16	12	13	12	24	29	33
Bureau of Prisons	8	8	4	5	6	6	3	11	7	6
Federal Bureau of Investigation	13	2	0	0	0	0	0	0	16	21
Office of Justice Programs	30	30	11	10	6	6	8	13	5	6
Department of Labor	4	0	0	NA	NA	NA	NA	NA	NA	NA
Pension Benefit Guaranty Corporation	4	0	0	NA	NA	NA	NA	NA	NA	NA
Department of State	0	0	0	0	10	20	20	17	11	0
Department of Transportation	312	253	295	267	284	285	265	268	310	348
Federal Aviation Administration	196	186	181	194	185	240	217	208	191	197
Federal Highway Administration	85	46	71	37	40	37	41	42	42	40
Federal Motor Carrier Safety Administration	1	1	1	0	0	*	3	6	5	3
Federal Railroad Administration	11	10	14	7	12	7	4	4	6	7
Federal Transit Administration	0	0	0	0	0	1	1	2	13	2
Office of the Secretary of Transportation	14	8	13	12	22	0	0	0	53	100
Pipeline and Hazardous Materials Safety Administration	5	2	16	17	25	0	0	6	0	0
Department of the Treasury	3	7	0	11	11	8	10	53	35	64
Bureau of Engraving and Printing	3	7	0	11	11	7	10	52	35	64
Mint	0	0	0	0	0	*	0	1	0	0

Table 83. Federal obligations for development, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
Department of Veterans Affairs	18	13	29	30	29	137	91	36	36	36
Other agencies										
Agency for International Development	44	0	46	49	59	30	68	52	52	0
Environmental Protection Agency	78	76	74	81	77	117	119	128	120	120
Federal Communications Commission	0	1	1	0	0	0	NA	NA	NA	NA
Library of Congress	1	1	2	1	2	2	3	3	na	na
National Aeronautics and Space Administration	6,791	6,849	5,424	5,459	4,144	4,436	4,318	4,922	4,743	4,798
Nuclear Regulatory Commission	0	0	0	0	1	3	0	0	0	0
Tennessee Valley Authority	NA	3	7	4	2	8	17	93	99	64

* = amount greater than \$0 but less than \$500,000. na = not applicable; data were not collected at this level of detail for this agency or subagency. NA = not available; agency did not provide data.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. Beginning with FY 2016, the totals reported for development obligations represent a refinement to this category by more narrowly defining it to be "experimental development." Most notably, totals for development do not include the Department of Defense (DOD) Budget Activity 7 (Operational System Development) nor Budget Activity 8 (Software and Digital Technology Pilot Programs) obligations. Those funds, previously included in DOD's development obligation totals, support the development efforts to upgrade systems that have been fielded or have received approval for full-rate production and anticipate production funding in the current or subsequent fiscal year. Therefore, the data are not directly comparable with totals reported in previous years. FYs 2020, 2021, and 2022 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 84. Federal obligations for research and development, by performer: FYs 1967–2025

(Dollars in millions)

Fiscal year	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
1967	16,529	3,396	1,275	9,878	1,454	400	63	63
1968	15,921	3,493	1,362	9,047	1,487	377	100	54
1969	15,641	3,501	1,390	8,703	1,529	364	102	51
1970	15,339	4,079	1,429	7,770	1,476	445	100	40
1971	15,543	4,228	1,419	7,588	1,645	459	141	63
1972	16,496	4,589	1,506	7,716	1,904	515	207	60
1973	16,800	4,762	1,491	7,731	1,917	578	257	64
1974	17,410	4,911	1,581	7,752	2,214	672	214	65
1975	19,039	5,354	1,859	8,423	2,411	702	228	62
1976	20,780	5,769	2,106	9,340	2,552	709	231	73
1977	23,450	6,012	2,690	10,717	2,905	800	238	88
1978	25,845	6,810	2,870	11,400	3,375	998	268	123
1979	28,145	7,418	3,175	12,172	3,889	1,026	310	155
1980	29,830	7,632	3,383	12,969	4,263	1,106	266	211
1981	33,104	8,426	3,730	14,868	4,466	1,069	222	323
1982	36,433	9,141	4,004	17,192	4,605	1,092	184	214
1983	38,712	10,582	4,476	17,020	4,966	1,242	186	240
1984	42,225	11,572	4,691	18,610	5,547	1,497	131	176
1985	48,360	12,945	5,296	21,705	6,340	1,699	129	245
1986	51,412	13,535	5,016	24,201	6,559	1,677	128	296
1987	55,254	13,413	5,580	26,768	7,337	1,711	148	295
1988	56,769	14,115	5,891	26,719	7,828	1,683	142	392
1989	61,406	15,025	6,075	28,548	8,672	2,000	167	919
1990	63,559	15,849	6,398	29,370	9,138	2,248	214	343
1991	61,295	15,138	6,451	26,421	10,169	2,637	215	264
1992	65,593	15,583	6,718	29,745	10,271	2,804	184	288
1993	67,314	16,663	5,819	30,219	11,208	2,812	320	272
1994	67,235	16,132	5,322	30,455	11,797	2,937	325	267
1995	68,187	17,025	5,588	30,236	11,928	2,834	316	259
1996	67,653	16,540	5,339	30,374	11,978	2,887	247	288
1997	69,827	16,718	5,650	31,419	12,559	2,962	261	258
1998	72,101	17,122	5,682	31,999	13,381	3,171	447	299
1999	75,341	18,085	6,138	31,902	14,959	3,609	357	291
2000	75,910	18,313	6,500	29,409	16,891	4,228	225	344
2001	84,493	22,047	7,825	28,237	20,065	5,390	453	476
2002	93,709	23,357	7,517	34,569	21,620	5,782	454	410
2003	103,528	25,118	7,981	40,695	23,006	5,766	405	557
2004	112,074	24,573	10,374	43,759	24,947	6,481	1,236	706
2005	118,848	25,871	10,375	48,868	25,688	6,705	690	652
2006	121,730	27,675	9,118	52,754	24,670	6,063	625	824
2007	127,263	29,933	9,383	55,342	25,548	5,984	362	711
2008	127,106	29,638	8,192	56,338	26,027	5,965	389	559
2009	141,090	31,544	10,200	59,749	31,558	7,050	392	597
2010	140,355	30,912	10,101	59,868	31,192	7,245	427	610
2011	135,533	35,145	10,786	53,550	27,680	6,678	716	977
2012	138,525	34,366	10,058	58,910	27,509	6,388	453	839
2013	125,720	32,963	10,080	49,538	25,772	6,249	386	732
2014	130,561	34,736	10,565	50,237	27,429	6,418	446	730
2015	128,753	34,925	11,119	47,483	27,415	6,288	487	1,036
2016	115,833	32,351	11,423	35,811	28,199	6,682	543	824

Table 84. Federal obligations for research and development, by performer: FYs 1967–2025

(Dollars in millions)

Fiscal year	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
2017	118,975	30,990	11,694	37,875	28,963	8,141	553	758
2018	129,425	35,953	12,455	39,754	31,534	8,451	562	715
2019	142,424	39,313	14,691	44,446	34,001	8,450	586	937
2020	167,403	51,472	13,150	51,428	38,541	10,699	720	1,393
2021	189,640	72,845	14,791	50,225	39,766	10,287	973	753
2022	190,466	70,806	15,383	50,221	42,179	10,136	925	818
2023	186,076	43,700	16,389	67,990	45,018	11,507	694	778
2024	194,243	51,072	16,350	69,917	44,407	10,604	795	1,098
2025 (preliminary)	194,056	55,387	17,819	65,715	42,683	10,967	716	769

FFRDC = federally funded research and development center.

^a Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, and actual federal performance.

^b Higher education includes both public and private institutions as well as University Affiliated Research Centers.

Note(s):

Because of rounding, detail may not add to total. FFRDC funding over the years may be affected by the creation of new FFRDCs and the phasing out of other FFRDCs. For details, see the notes in the Master Government List of Federally Funded R&D Centers at <https://nces.nsf.gov/resource/master-gov-lists-ffrdc#ffrdc>. The federal fiscal year cycle changed for FY 1977, from 1 July–30 June to the current 1 October–30 September cycle; no data were collected for the 3-month transition period of July–September 1976. FYs 2009 and 2010 obligations include additional funding provided by the American Recovery and Reinvestment Act of 2009. Beginning with FY 2016, the totals reported for development obligations represent a refinement to this category by more narrowly defining it to be "experimental development." Most notably, totals for development do not include the Department of Defense (DOD) Budget Activity 7 (Operational System Development) nor Budget Activity 8 (Software and Digital Technology Pilot Programs) obligations. Those funds, previously included in DOD's development obligation totals, support the development efforts to upgrade systems that have been fielded or have received approval for full-rate production and anticipate production funding in the current or subsequent fiscal year. FYs 2020, 2021, and 2022 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). As of volume 71 (FYs 2021–22), FFRDCs are classified as intramural R&D performers, whereas they were extramural in previous volumes; therefore, data are not directly comparable across volumes. Past years in the trend tables have been adjusted to reflect the current classification of FFRDCs.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 85. Federal obligations for research, by performer: FYs 1967–2025

(Dollars in millions)

Fiscal year	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
1967	4,631	1,461	472	1,039	1,312	249	53	46
1968	4,781	1,541	484	1,094	1,302	234	82	45
1969	4,645	1,645	453	886	1,322	222	75	42
1970	4,901	1,904	500	876	1,276	230	83	30
1971	5,123	1,888	487	889	1,430	282	96	52
1972	5,548	1,984	534	907	1,643	342	94	45
1973	5,581	2,088	474	887	1,691	316	84	40
1974	6,175	2,270	523	875	1,958	414	91	44
1975	6,730	2,464	626	1,010	2,079	395	112	44
1976	7,619	2,879	782	1,103	2,250	435	119	50
1977	8,514	2,958	918	1,367	2,584	512	115	60
1978	9,607	3,221	1,017	1,651	2,928	591	129	70
1979	10,535	3,481	1,119	1,762	3,333	623	139	77
1980	11,597	3,666	1,234	2,078	3,699	678	151	91
1981	12,213	4,034	1,360	1,958	3,920	705	129	106
1982	13,022	4,194	1,648	2,157	4,045	744	126	108
1983	14,254	4,710	1,858	2,114	4,468	837	137	130
1984	14,979	4,765	1,920	2,137	5,030	923	88	117
1985	16,133	5,056	2,004	2,074	5,726	1,045	89	138
1986	16,502	5,160	1,862	2,280	5,883	1,063	91	162
1987	17,941	5,438	1,994	2,449	6,640	1,207	90	122
1988	18,650	5,338	2,103	2,642	7,023	1,300	103	140
1989	20,766	5,897	2,417	2,875	7,793	1,520	121	142
1990	21,622	5,810	2,543	3,192	8,137	1,660	126	154
1991	23,968	6,454	3,041	3,407	8,868	1,926	129	143
1992	24,491	6,523	3,177	3,451	9,061	2,050	109	120
1993	26,890	7,452	3,272	3,924	9,892	2,041	212	97
1994	27,411	7,481	3,097	4,064	10,292	2,102	231	145
1995	28,434	7,685	3,252	4,699	10,354	2,079	221	145
1996	28,260	7,513	3,277	4,269	10,707	2,179	187	128
1997	29,365	7,667	3,576	4,392	11,173	2,295	144	118
1998	30,922	7,969	3,802	4,633	11,739	2,425	240	115
1999	33,528	8,686	3,903	4,580	13,204	2,807	232	116
2000	38,471	9,450	4,170	4,801	16,022	3,714	163	152
2001	44,714	11,131	4,658	5,262	18,657	4,578	309	119
2002	48,007	11,857	4,906	5,787	20,285	4,723	275	172
2003	51,072	12,420	5,155	6,042	21,676	5,196	306	276
2004	53,358	12,085	5,614	6,783	22,699	5,216	533	427
2005	53,738	12,350	5,733	6,456	23,156	5,296	377	370
2006	53,536	12,262	5,759	6,436	22,809	5,449	418	402
2007	54,094	11,816	6,088	6,074	23,967	5,417	298	433
2008	53,894	11,922	5,758	5,782	24,323	5,397	339	372
2009	63,692	13,319	6,681	6,280	30,169	6,501	344	399
2010	63,728	13,281	6,745	6,625	29,608	6,687	353	429
2011	58,065	12,663	6,656	6,037	26,253	5,802	282	370
2012	61,986	14,293	6,993	7,794	26,290	5,854	352	410
2013	59,533	13,417	7,490	7,366	24,772	5,780	313	395
2014	63,191	14,306	8,034	8,057	26,110	5,931	395	358
2015	63,825	15,007	7,942	8,138	25,962	5,863	420	494
2016	67,105	16,055	8,650	8,370	26,864	6,270	420	476

Table 85. Federal obligations for research, by performer: FYs 1967–2025

(Dollars in millions)

Fiscal year	Total	Intramural		Extramural				
				United States and U.S. territories				Non-U.S. performers
		Federal agencies ^a	FFRDCs	Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
2017	69,871	15,905	8,976	8,963	27,626	7,576	453	372
2018	74,588	17,818	9,458	8,768	30,089	7,615	430	411
2019	81,118	18,298	10,820	10,739	32,381	7,892	500	488
2020	85,305	19,572	9,892	10,028	35,474	9,191	645	503
2021	85,915	17,551	10,529	10,790	37,027	8,644	887	488
2022	93,832	20,673	11,133	12,681	39,069	8,797	862	615
2023	101,256	20,400	11,575	17,149	41,780	9,220	585	548
2024	99,556	24,486	11,790	13,003	40,503	8,640	639	494
2025 (preliminary)	95,241	21,659	13,276	11,583	39,136	8,625	522	439

FFRDC = federally funded research and development center.

^a Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, and actual federal performance.

^b Higher education includes both public and private institutions as well as University Affiliated Research Centers.

Note(s):

Because of rounding, detail may not add to total. FFRDC funding over the years may be affected by the creation of new FFRDCs and the phasing out of other FFRDCs. For details, see the notes in the Master Government List of Federally Funded R&D Centers at <https://nces.nsf.gov/resource/master-gov-lists-ffrdc#ffrdc>. The federal fiscal year cycle changed for FY 1977, from 1 July–30 June to the current 1 October–30 September cycle; no data were collected for the 3-month transition period of July–September 1976. FYs 2009 and 2010 obligations include additional funding provided by the American Recovery and Reinvestment Act of 2009. FYs 2020, 2021, and 2022 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). As of volume 71 (FYs 2021–22), FFRDCs are classified as intramural R&D performers, whereas they were extramural in previous volumes; therefore, data are not directly comparable across volumes. Past years in the trend tables have been adjusted to reflect the current classification of FFRDCs.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 86. Federal obligations for basic research, by performer: FYs 1967–2025

(Dollars in millions)

Fiscal year	Total	Intramural		Extramural				
				United States and U.S. territories				Non-U.S. performers
		Federal agencies ^a	FFRDCs	Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
1967	1,846	435	242	181	857	105	4	22
1968	1,841	432	258	195	835	93	12	15
1969	1,945	532	253	185	864	85	13	13
1970	1,926	558	270	185	808	80	14	10
1971	1,980	565	259	167	879	85	17	8
1972	2,187	597	294	151	1,021	96	16	11
1973	2,232	608	272	176	1,048	98	16	13
1974	2,388	696	261	124	1,145	127	17	18
1975	2,588	734	319	119	1,261	128	14	14
1976	2,767	786	353	131	1,342	126	13	17
1977	3,259	914	383	208	1,555	163	16	20
1978	3,699	1,029	428	248	1,759	193	17	25
1979	4,193	1,089	467	277	2,080	240	20	20
1980	4,674	1,182	515	325	2,320	280	24	28
1981	5,041	1,302	572	293	2,503	313	27	31
1982	5,482	1,466	613	271	2,727	356	24	25
1983	6,260	1,690	695	293	3,112	410	32	28
1984	7,067	1,861	768	378	3,531	474	28	28
1985	7,819	1,923	859	380	4,039	556	31	31
1986	8,153	2,019	855	512	4,132	572	31	33
1987	8,942	2,046	1,040	467	4,666	658	38	29
1988	9,474	2,050	1,141	597	4,868	729	43	46
1989	10,602	2,313	1,364	773	5,221	839	44	47
1990	11,286	2,295	1,533	887	5,548	924	50	48
1991	12,171	2,392	1,651	950	6,064	1,015	49	49
1992	12,490	2,338	1,707	920	6,332	1,097	42	54
1993	13,399	2,662	1,718	896	6,834	1,165	72	53
1994	13,523	2,498	1,648	1,110	6,992	1,133	75	68
1995	13,877	2,694	1,754	1,214	6,944	1,148	79	45
1996	14,464	2,677	1,870	1,109	7,443	1,235	80	50
1997	14,942	2,688	1,983	1,167	7,696	1,290	68	50
1998	15,613	2,919	2,091	1,119	7,952	1,398	85	50
1999	17,444	3,255	2,234	1,083	9,107	1,650	61	53
2000	19,570	3,622	2,367	1,357	10,057	1,985	76	107
2001	21,958	4,194	2,478	917	11,792	2,442	72	64
2002	23,668	4,460	2,608	1,232	12,668	2,532	72	97
2003	24,751	4,662	2,723	1,280	13,152	2,704	85	146
2004	26,121	4,672	2,905	1,969	13,399	2,746	198	232
2005	27,140	4,773	2,962	2,051	13,990	2,914	236	215
2006	26,585	4,764	3,073	1,859	13,658	2,867	153	211
2007	26,866	4,572	3,214	1,736	14,220	2,794	101	228
2008	27,154	4,768	2,975	1,545	14,646	2,935	76	209
2009	32,879	5,530	3,702	1,632	18,230	3,487	94	205
2010	31,795	5,191	3,602	1,747	17,403	3,530	103	219
2011	29,314	4,870	3,595	1,726	15,771	3,067	76	209
2012	30,959	5,579	4,081	2,155	15,730	3,123	80	210
2013	29,779	5,217	4,302	2,052	14,950	3,000	66	192
2014	31,588	5,669	4,360	2,516	15,655	3,125	78	185
2015	31,527	5,814	4,628	2,537	15,296	2,986	61	207
2016	32,293	6,121	4,710	2,447	15,551	3,179	81	204

Table 86. Federal obligations for basic research, by performer: FYs 1967–2025

(Dollars in millions)

Fiscal year	Total	Intramural		Extramural				
				United States and U.S. territories				Non-U.S. performers
		Federal agencies ^a	FFRDCs	Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
2017	33,271	6,116	4,994	2,692	15,847	3,359	66	197
2018	36,195	6,689	5,269	2,787	17,503	3,658	87	203
2019	40,017	7,240	6,454	3,637	18,627	3,725	86	250
2020	41,547	7,688	5,923	3,147	20,128	4,326	114	221
2021	42,266	6,523	5,805	3,785	21,441	3,948	533	232
2022	45,414	7,841	6,731	3,858	22,260	3,982	544	199
2023	46,981	7,914	6,858	4,163	23,778	3,913	117	238
2024	47,494	10,069	6,622	4,668	22,047	3,791	111	185
2025 (preliminary)	45,361	7,832	8,076	4,316	21,073	3,775	106	183

FFRDC = federally funded research and development center.

^a Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, and actual federal performance.

^b Higher education includes both public and private institutions as well as University Affiliated Research Centers.

Note(s):

Because of rounding, detail may not add to total. FFRDC funding over the years may be affected by the creation of new FFRDCs and the phasing out of other FFRDCs. For details, see the notes in the Master Government List of Federally Funded R&D Centers at <https://nces.nsf.gov/resource/master-gov-lists-ffrdc#ffrdc>. The federal fiscal year cycle changed for FY 1977, from 1 July–30 June to the current 1 October–30 September cycle; no data were collected for the 3-month transition period of July–September 1976. FYs 2009 and 2010 obligations include additional funding provided by the American Recovery and Reinvestment Act of 2009. FYs 2020, 2021, and 2022 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). As of volume 71 (FYs 2021–22), FFRDCs are classified as intramural R&D performers, whereas they were extramural in previous volumes; therefore, data are not directly comparable across volumes. Past years in the trend tables have been adjusted to reflect the current classification of FFRDCs.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 87. Federal obligations for applied research, by performer: FYs 1967–2025

(Dollars in millions)

Fiscal year	Total	Intramural		Extramural				
				United States and U.S. territories				Non-U.S. performers
		Federal agencies ^a	FFRDCs	Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
1967	2,786	1,026	230	858	455	144	49	24
1968	2,941	1,110	225	899	467	141	70	29
1969	2,700	1,113	200	702	457	136	62	29
1970	2,975	1,345	230	691	468	150	70	20
1971	3,143	1,322	228	722	551	197	79	44
1972	3,361	1,387	240	755	621	246	78	33
1973	3,349	1,480	202	711	643	218	68	27
1974	3,788	1,574	262	751	814	287	74	26
1975	4,141	1,730	307	892	818	266	98	30
1976	4,852	2,093	430	972	908	309	106	34
1977	5,255	2,044	535	1,159	1,028	350	100	40
1978	5,908	2,192	589	1,404	1,169	398	112	45
1979	6,342	2,392	652	1,485	1,253	382	120	58
1980	6,923	2,484	719	1,752	1,379	399	127	63
1981	7,171	2,732	787	1,665	1,417	392	103	75
1982	7,541	2,729	1,035	1,886	1,318	388	101	83
1983	7,993	3,020	1,163	1,821	1,356	427	105	101
1984	7,911	2,904	1,151	1,760	1,499	449	60	89
1985	8,315	3,133	1,145	1,694	1,688	489	59	107
1986	8,349	3,141	1,007	1,769	1,751	491	60	130
1987	8,998	3,392	954	1,982	1,975	550	53	93
1988	9,177	3,288	962	2,046	2,155	571	60	94
1989	10,164	3,584	1,053	2,102	2,572	681	78	95
1990	10,337	3,515	1,010	2,304	2,588	736	76	107
1991	11,798	4,063	1,390	2,457	2,803	910	80	94
1992	12,001	4,186	1,470	2,531	2,729	952	67	66
1993	13,491	4,790	1,555	3,028	3,059	876	140	44
1994	13,888	4,983	1,449	2,954	3,299	969	156	77
1995	14,557	4,991	1,499	3,484	3,410	930	143	100
1996	13,796	4,836	1,407	3,160	3,263	944	107	77
1997	14,423	4,979	1,593	3,225	3,477	1,005	76	68
1998	15,309	5,051	1,711	3,513	3,787	1,028	155	64
1999	16,084	5,431	1,669	3,497	4,097	1,157	171	63
2000	18,901	5,828	1,803	3,444	5,965	1,729	87	45
2001	22,756	6,937	2,180	4,345	6,865	2,136	237	55
2002	24,338	7,397	2,298	4,555	7,617	2,191	204	76
2003	26,320	7,758	2,432	4,763	8,525	2,492	220	130
2004	27,237	7,414	2,710	4,813	9,301	2,470	335	195
2005	26,598	7,577	2,771	4,405	9,166	2,382	141	156
2006	26,951	7,498	2,686	4,577	9,152	2,581	265	191
2007	27,228	7,244	2,875	4,338	9,747	2,623	196	205
2008	26,740	7,154	2,783	4,237	9,678	2,462	263	162
2009	30,813	7,789	2,979	4,649	11,939	3,013	249	194
2010	31,933	8,090	3,144	4,879	12,205	3,157	250	209
2011	28,751	7,794	3,062	4,311	10,482	2,735	206	161
2012	31,027	8,714	2,912	5,639	10,560	2,731	272	200
2013	29,753	8,200	3,189	5,313	9,822	2,780	247	203
2014	31,604	8,636	3,674	5,542	10,455	2,806	317	173
2015	32,298	9,193	3,314	5,602	10,667	2,877	359	287
2016	34,812	9,934	3,939	5,924	11,313	3,091	339	272

Table 87. Federal obligations for applied research, by performer: FYs 1967–2025

(Dollars in millions)

Fiscal year	Total	Intramural		Extramural				
				United States and U.S. territories				Non-U.S. performers
		Federal agencies ^a	FFRDCs	Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
2017	36,600	9,789	3,982	6,271	11,779	4,217	387	176
2018	38,392	11,129	4,189	5,981	12,585	3,957	343	208
2019	41,101	11,058	4,366	7,102	13,755	4,167	414	238
2020	43,758	11,884	3,969	6,882	15,345	4,865	530	282
2021	43,649	11,028	4,724	7,004	15,586	4,697	354	256
2022	48,418	12,833	4,402	8,824	16,809	4,816	319	416
2023	54,274	12,486	4,717	12,985	18,002	5,306	467	310
2024	52,062	14,417	5,168	8,335	18,456	4,849	529	309
2025 (preliminary)	49,879	13,827	5,200	7,267	18,063	4,850	416	256

FFRDC = federally funded research and development center.

^a Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, and actual federal performance.

^b Higher education includes both public and private institutions as well as University Affiliated Research Centers.

Note(s):

Because of rounding, detail may not add to total. FFRDC funding over the years may be affected by the creation of new FFRDCs and the phasing out of other FFRDCs. For details, see the notes in the Master Government List of Federally Funded R&D Centers at <https://nces.nsf.gov/resource/master-gov-lists-ffrdc#ffrdc>. The federal fiscal year cycle changed for FY 1977, from 1 July–30 June to the current 1 October–30 September cycle; no data were collected for the 3-month transition period of July–September 1976. FYs 2009 and 2010 obligations include additional funding provided by the American Recovery and Reinvestment Act of 2009. FYs 2020, 2021, and 2022 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). As of volume 71 (FYs 2021–22), FFRDCs are classified as intramural R&D performers, whereas they were extramural in previous volumes; therefore, data are not directly comparable across volumes. Past years in the trend tables have been adjusted to reflect the current classification of FFRDCs.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 88. Federal obligations for development, by performer: FYs 1967–2025

(Dollars in millions)

Fiscal year	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
1967	11,898	1,934	803	8,839	142	151	10	17
1968	11,140	1,952	879	7,953	186	143	18	9
1969	10,996	1,856	937	7,817	207	143	27	9
1970	10,438	2,175	929	6,894	199	214	16	10
1971	10,419	2,340	933	6,699	214	177	45	11
1972	10,948	2,605	972	6,809	261	173	113	15
1973	11,219	2,674	1,017	6,844	226	262	173	24
1974	11,235	2,641	1,058	6,878	256	258	123	21
1975	12,309	2,890	1,233	7,413	333	308	116	17
1976	13,160	2,890	1,324	8,237	302	273	112	23
1977	14,936	3,054	1,772	9,350	322	288	123	28
1978	16,238	3,590	1,853	9,749	447	407	140	53
1979	17,610	3,936	2,056	10,410	555	404	171	77
1980	18,233	3,966	2,149	10,892	564	427	115	120
1981	20,891	4,392	2,370	12,910	546	364	93	217
1982	23,410	4,947	2,355	15,036	560	348	58	106
1983	24,458	5,872	2,618	14,906	498	405	49	110
1984	27,246	6,808	2,772	16,473	517	575	43	59
1985	32,226	7,889	3,292	19,630	613	654	40	107
1986	34,910	8,375	3,154	21,921	675	614	37	134
1987	37,313	7,975	3,586	24,320	697	504	58	173
1988	38,119	8,776	3,788	24,077	805	383	39	251
1989	40,641	9,128	3,658	25,673	879	480	46	777
1990	41,937	10,039	3,855	26,178	1,001	588	87	188
1991	37,327	8,684	3,410	23,014	1,301	712	86	121
1992	41,102	9,060	3,542	26,294	1,211	754	75	168
1993	40,424	9,212	2,547	26,295	1,316	771	108	175
1994	39,824	8,651	2,226	26,391	1,505	835	95	122
1995	39,752	9,340	2,336	25,537	1,574	755	95	114
1996	39,393	9,027	2,062	26,105	1,271	708	59	161
1997	40,461	9,051	2,074	27,027	1,386	667	117	139
1998	41,178	9,152	1,880	27,366	1,642	746	207	185
1999	41,813	9,399	2,235	27,322	1,755	802	125	175
2000	37,440	8,864	2,331	24,608	869	513	63	192
2001	39,779	10,916	3,167	22,974	1,408	812	145	357
2002	45,702	11,500	2,611	28,782	1,335	1,059	178	237
2003	52,456	12,699	2,826	34,652	1,329	570	99	281
2004	58,717	12,488	4,759	36,976	2,248	1,264	703	279
2005	65,110	13,521	4,642	42,411	2,532	1,409	313	281
2006	68,194	15,414	3,359	46,318	1,860	614	207	422
2007	73,169	18,116	3,295	49,268	1,581	568	64	277
2008	73,212	17,716	2,433	50,555	1,703	567	50	187
2009	77,398	18,225	3,520	53,469	1,389	549	48	198
2010	76,627	17,631	3,355	53,242	1,584	558	74	181
2011	77,468	22,481	4,129	47,513	1,427	876	434	607
2012	76,538	20,073	3,065	51,116	1,220	534	101	429
2013	66,188	19,546	2,589	42,173	1,000	469	72	338
2014	67,370	20,431	2,531	42,179	1,319	487	52	372
2015	64,928	19,919	3,177	39,345	1,453	426	67	542
2016	48,728	16,296	2,773	27,441	1,336	412	122	349

Table 88. Federal obligations for development, by performer: FYs 1967–2025

(Dollars in millions)

Fiscal year	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
2017	49,103	15,085	2,718	28,912	1,337	564	100	386
2018	54,837	18,136	2,998	30,986	1,446	836	132	305
2019	61,306	21,015	3,871	33,707	1,619	559	86	450
2020	82,098	31,899	3,258	41,400	3,067	1,508	75	890
2021	103,724	55,294	4,263	39,435	2,740	1,642	85	265
2022	96,634	50,132	4,250	37,540	3,110	1,338	62	202
2023	84,820	23,300	4,814	50,841	3,238	2,288	109	230
2024	94,687	26,585	4,561	56,914	3,903	1,963	156	604
2025 (preliminary)	98,815	33,728	4,543	54,132	3,546	2,342	194	330

FFRDC = federally funded research and development center.

^a Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, and actual federal performance.

^b Higher education includes both public and private institutions as well as University Affiliated Research Centers.

Note(s):

Because of rounding, detail may not add to total. FFRDC funding over the years may be affected by the creation of new FFRDCs and the phasing out of other FFRDCs. For details, see the notes in the Master Government List of Federally Funded R&D Centers at <https://nces.nsf.gov/resource/master-gov-lists-ffrdc#ffrdc>. The federal fiscal year cycle changed for FY 1977, from 1 July–30 June to the current 1 October–30 September cycle; no data were collected for the 3-month transition period of July–September 1976. FYs 2009 and 2010 obligations include additional funding provided by the American Recovery and Reinvestment Act of 2009. Beginning with FY 2016, the totals reported for development obligations represent a refinement to this category by more narrowly defining it to be "experimental development." Most notably, totals for development do not include the Department of Defense (DOD) Budget Activity 7 (Operational System Development) nor Budget Activity 8 (Software and Digital Technology Pilot Programs) obligations. Those funds, previously included in DOD's development obligation totals, support the development efforts to upgrade systems that have been fielded or have received approval for full-rate production and anticipate production funding in the current or subsequent fiscal year. FYs 2020, 2021, and 2022 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). As of volume 71 (FYs 2021–22), FFRDCs are classified as intramural R&D performers, whereas they were extramural in previous volumes; therefore, data are not directly comparable across volumes. Past years in the trend tables have been adjusted to reflect the current classification of FFRDCs.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 89. Federal obligations for R&D plant, by performer: FYs 1967–2025

(Dollars in millions)

Fiscal year	Total	Intramural		Extramural				Non-U.S. performers
		Federal agencies ^a	FFRDCs	United States and U.S. territories				
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
1967	620	239	139	NA	112	NA	130	*
1968	604	294	152	41	98	11	7	0
1969	669	260	286	54	62	5	2	1
1970	524	166	254	41	56	5	2	*
1971	611	203	293	54	49	3	1	9
1972	602	247	208	67	45	28	5	3
1973	774	324	310	77	43	16	3	2
1974	766	309	350	64	25	6	12	*
1975	821	347	365	62	36	11	*	*
1976	837	317	400	74	35	11	0	0
1977	1,367	712	500	103	34	7	1	11
1978	1,296	518	642	77	55	4	0	*
1979	1,475	545	656	214	42	9	*	8
1980	1,556	491	707	304	40	9	1	4
1981	1,486	468	632	302	37	41	0	5
1982	1,390	426	813	110	30	7	0	3
1983	1,297	394	527	259	34	82	0	1
1984	1,787	633	564	451	79	56	0	5
1985	1,821	625	651	298	141	70	*	35
1986	1,539	317	646	409	133	12	0	21
1987	1,846	302	619	668	231	21	0	6
1988	2,057	320	746	719	246	24	*	2
1989	2,165	330	711	900	205	14	1	4
1990	2,272	359	758	883	157	113	1	1
1991	2,853	519	923	1,003	253	145	1	9
1992	2,985	506	828	1,014	242	394	*	0
1993	3,101	432	809	1,048	361	416	1	33
1994	2,215	393	801	747	253	21	1	*
1995	2,256	480	702	695	327	26	1	26
1996	1,746	405	608	465	243	23	1	*
1997	1,927	608	673	390	239	17	0	*
1998	1,813	448	721	488	139	11	5	0
1999	2,046	483	859	545	141	12	5	*
2000	4,493	573	835	2,815	214	56	1	*
2001	4,070	520	1,015	2,180	285	28	1	40
2002	4,305	415	1,081	2,525	241	29	2	12
2003	4,267	610	1,058	1,817	687	71	1	23
2004	3,994	961	1,045	1,442	354	164	16	12
2005	3,771	859	902	1,381	423	135	55	16
2006	2,125	663	804	266	262	127	3	*
2007	2,168	593	822	401	266	80	0	6
2008	1,944	494	764	449	210	24	*	3
2009	3,668	805	1,702	396	607	154	1	2
2010	6,613	1,953	1,124	1,751	1,533	246	2	4
2011	4,171	846	852	2,030	286	141	*	15
2012	2,146	481	623	461	373	201	*	8
2013	1,905	673	576	231	237	184	*	4
2014	2,218	642	710	323	326	213	*	3
2015	2,825	1,417	689	276	292	151	*	*
2016	2,441	646	865	345	284	290	1	10

Table 89. Federal obligations for R&D plant, by performer: FYs 1967–2025

(Dollars in millions)

Fiscal year	Total	Intramural		Extramural				
				United States and U.S. territories				Non-U.S. performers
		Federal agencies ^a	FFRDCs	Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
2017	2,652	829	956	334	350	158	0	25
2018	3,853	1,252	1,685	311	410	180	0	14
2019	4,376	1,093	2,235	354	514	170	1	10
2020	6,150	3,106	1,884	678	351	125	7	*
2021	4,282	883	2,019	858	360	155	6	*
2022	6,173	1,096	3,437	1,020	463	149	8	1
2023	5,664	1,420	2,570	1,088	458	114	13	*
2024	5,212	1,378	2,364	970	376	117	5	2
2025 (preliminary)	4,647	1,361	2,274	517	377	113	5	1

* = amount greater than \$0 but less than \$500,000. NA = not available; agency did not provide data.

FFRDC = federally funded research and development center.

^a Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, and actual federal performance.

^b Higher education includes both public and private institutions as well as University Affiliated Research Centers.

Note(s):

Because of rounding, detail may not add to total. FFRDC funding over the years may be affected by the creation of new FFRDCs and the phasing out of other FFRDCs. For details, see the notes in the Master Government List of Federally Funded R&D Centers at <https://nces.nsf.gov/resource/master-gov-lists-ffrdc#ffrdc>. The federal fiscal year cycle changed for FY 1977, from 1 July–30 June to the current 1 October–30 September cycle; no data were collected for the 3-month transition period of July–September 1976. FYs 2009 and 2010 obligations include additional funding provided by the American Recovery and Reinvestment Act of 2009. FYs 2020, 2021, and 2022 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). As of volume 71 (FYs 2021–22), FFRDCs are classified as intramural R&D performers, whereas they were extramural in previous volumes; therefore, data are not directly comparable across volumes. Past years in the trend tables have been adjusted to reflect the current classification of FFRDCs.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 90. Federal obligations for research, by detailed field of science and engineering: FYs 2005–15

(Dollars in millions)

Field	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
All fields	53,738	53,536	54,094	53,894	63,692	63,728	58,065	61,986	59,533	63,191	63,825
Computer sciences and mathematics	2,983	2,815	2,946	3,047	3,612	3,412	3,374	3,528	3,427	3,883	3,863
Computer sciences	2,157	1,988	2,078	2,053	2,422	2,362	2,192	2,392	2,362	2,613	2,646
Mathematics	687	669	709	783	928	835	892	925	864	979	1,006
Other computer sciences and mathematics	140	158	159	211	262	214	291	210	201	291	211
Engineering	8,553	8,679	8,990	8,976	10,285	11,081	10,057	11,403	10,948	11,888	11,984
Aeronautical engineering	1,276	1,229	929	810	908	830	845	1,815	1,842	1,833	1,825
Astronautical engineering	494	476	341	288	370	390	410	690	737	669	661
Chemical engineering	284	295	354	346	447	510	475	350	419	535	375
Civil engineering	279	353	462	488	679	700	617	514	447	445	458
Electrical engineering	1,033	1,035	1,027	1,046	1,254	1,361	1,235	1,325	1,163	1,240	897
Mechanical engineering	324	298	337	292	314	364	310	372	549	503	324
Metallurgy and materials engineering	1,184	1,250	1,480	1,624	1,722	1,759	1,621	1,699	1,729	1,769	1,757
Other engineering	3,678	3,742	4,060	4,081	4,591	5,168	4,544	4,639	4,062	4,894	5,688
Environmental sciences	3,503	3,431	3,170	2,985	3,751	3,339	3,207	3,884	4,041	4,366	4,414
Atmospheric sciences	1,185	1,167	965	884	1,018	954	954	1,469	1,542	1,567	1,568
Geological sciences	674	654	638	517	754	530	598	726	627	561	643
Oceanography	772	746	788	789	834	744	724	814	788	848	726
Other environmental sciences	872	864	780	794	1,145	1,111	932	876	1,084	1,389	1,477
Life sciences	28,128	27,928	29,464	28,919	33,267	33,909	29,450	31,006	29,663	30,951	30,625
Agricultural sciences	1,094	1,108	1,139	1,020	1,120	1,132	1,085	943	903	1,004	1,320
Biological sciences (excluding environmental biology)	13,352	13,691	14,430	14,443	17,377	17,214	15,178	15,458	14,588	15,311	14,840
Environmental biology	699	687	757	858	964	816	855	797	782	821	819
Medical sciences	10,862	10,592	10,791	10,387	11,393	11,677	10,202	11,078	10,917	11,285	11,087
Other life sciences	2,121	1,850	2,347	2,210	2,414	3,070	2,129	2,730	2,472	2,530	2,559
Physical sciences	5,494	5,351	5,136	5,073	5,821	5,871	5,427	6,408	6,282	6,483	6,510
Astronomy	885	792	656	528	672	560	555	1,099	1,147	1,192	1,230
Chemistry	1,198	1,126	1,150	1,148	1,274	1,311	1,106	1,103	982	1,013	968
Physics	3,041	3,002	2,939	2,969	3,356	3,470	3,269	3,708	3,482	3,565	3,040
Other physical sciences	370	430	391	427	520	530	496	497	671	714	1,272
Psychology	1,892	1,747	1,838	1,741	2,086	2,156	1,887	2,087	1,935	1,968	1,995
Biological aspects	2	3	4	22	2	14	16	14	14	15	19
Social aspects	47	41	37	19	51	75	54	62	65	59	59
Other psychological sciences	1,843	1,703	1,797	1,700	2,033	2,067	1,816	2,011	1,856	1,894	1,917
Social sciences	1,097	1,124	1,147	977	1,157	1,197	1,262	1,125	1,237	1,435	1,136
Anthropology	18	15	16	17	29	25	26	30	26	26	30
Economics	216	203	250	212	230	274	399	344	333	344	337
Political science	33	45	41	29	25	14	12	13	11	13	16

Table 90. Federal obligations for research, by detailed field of science and engineering: FYs 2005–15

(Dollars in millions)

Field	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Sociology	70	144	218	95	139	132	133	155	137	158	128
Other social sciences	760	717	622	623	734	752	693	583	730	893	625
Other sciences nec	2,089	2,461	1,403	2,177	3,713	2,763	3,401	2,546	1,999	2,218	3,299

nec = not elsewhere classified.

Note(s):

Because of rounding, detail may not add to total. FYs 2009 and 2010 obligations include additional funding provided by the American Recovery and Reinvestment Act of 2009.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 91. Federal obligations for research, by detailed field of R&D: FYs 2016–25

(Dollars in millions)

Field	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
All fields	67,105	69,871	74,588	81,118	85,305	85,915	93,832	101,256	99,556	95,241
Computer and information sciences	NA	NA	NA	NA	NA	5,350	4,854	5,136	6,664	5,088
Computer sciences and mathematics	4,223	3,894	4,207	4,330	5,912	NA	NA	NA	NA	NA
Computer sciences	2,815	2,735	2,888	2,897	4,280	NA	NA	NA	NA	NA
Mathematics	1,160	942	1,055	1,157	681	NA	NA	NA	NA	NA
Other computer sciences and mathematics	247	218	264	276	950	NA	NA	NA	NA	NA
Geosciences, atmospheric sciences, and ocean sciences (formerly environmental sciences)	4,450	4,470	4,568	5,075	5,039	5,042	5,566	5,884	5,693	5,854
Atmospheric science and meteorology (formerly atmospheric sciences)	1,597	1,651	796	824	908	888	960	1,096	1,019	NA
Geological and earth sciences (formerly geological sciences)	562	580	227	239	306	602	622	413	369	NA
Ocean sciences and marine sciences (formerly oceanography)	773	774	778	819	946	1,096	1,127	1,120	959	NA
Other geosciences, atmospheric sciences, and ocean sciences (formerly other environmental sciences)	1,518	1,464	2,766	3,192	2,879	2,456	2,857	3,255	3,346	NA
Life sciences	32,045	34,090	36,994	38,304	42,525	38,249	41,610	43,750	38,622	37,374
Agricultural sciences	1,283	1,353	1,325	1,446	1,413	1,073	1,268	1,208	1,255	NA
Biological and biomedical sciences	NA	NA	NA	NA	NA	18,228	21,327	24,791	19,371	NA
Biological sciences (excluding environmental biology)	15,923	16,556	17,829	18,910	20,165	NA	NA	NA	NA	NA
Environmental biology	788	783	922	924	902	NA	NA	NA	NA	NA
Health sciences (formerly medical sciences)	11,359	12,649	13,564	13,775	16,182	15,008	14,707	13,281	13,508	NA
Natural resources and conservation	NA	NA	NA	NA	NA	227	247	360	407	NA
Other life sciences	2,693	2,748	3,354	3,249	3,863	3,712	4,060	4,109	4,081	NA
Mathematics and statistics	NA	NA	NA	NA	NA	715	904	997	865	891
Physical sciences	6,706	6,581	7,881	9,816	8,420	10,048	12,099	12,703	12,759	12,503
Astronomy and astrophysics (formerly astronomy)	1,247	1,292	887	1,583	871	964	1,113	1,340	1,255	NA
Chemistry	999	969	1,121	1,125	1,144	1,141	2,014	1,920	2,622	NA
Materials science	NA	NA	NA	NA	NA	552	533	594	638	NA
Physics	3,732	3,676	3,541	3,446	3,577	3,156	3,677	4,275	3,974	NA
Other physical sciences	728	644	2,332	3,661	2,828	4,235	4,762	4,575	4,270	NA
Psychology	2,021	2,081	2,327	2,754	3,276	3,770	4,588	4,947	5,286	5,237
Biological aspects	20	10	20	18	14	14	29	26	21	NA
Social aspects	56	56	48	53	42	50	48	35	33	NA
Other psychological sciences	1,946	2,014	2,259	2,683	3,220	3,706	4,511	4,886	5,232	NA
Social sciences	1,227	1,027	1,039	1,156	1,137	1,371	1,918	2,679	3,138	3,053
Anthropology	32	32	35	35	19	42	57	39	20	NA
Economics	371	294	282	295	203	228	245	298	298	NA
Political science and government (formerly political science)	15	18	11	14	12	11	8	4	9	NA
Sociology, demography, and population studies (formerly sociology)	197	178	143	224	152	112	103	128	139	NA
Other social sciences ^a	612	505	568	588	751	978	1,505	2,210	2,673	NA
Engineering	12,972	13,207	13,759	15,279	13,222	14,650	15,497	15,670	17,551	16,345
Aeronautical engineering	1,836	1,892	1,118	1,199	1,093	NA	NA	NA	NA	NA

Table 91. Federal obligations for research, by detailed field of R&D: FYs 2016–25

(Dollars in millions)

Field	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
Aerospace, aeronautical, and astronautical engineering	NA	NA	NA	NA	NA	2,604	2,391	1,828	1,358	NA
Astronautical engineering	651	651	796	830	916	NA	NA	NA	NA	NA
Bioengineering and biomedical engineering	NA	NA	NA	NA	NA	40	148	162	308	NA
Chemical engineering	373	302	692	454	788	733	749	1,021	1,388	NA
Civil engineering	462	606	476	566	476	649	644	682	622	NA
Electrical, electronics, and communications engineering (formerly electrical engineering)	1,063	1,103	1,010	971	881	891	872	1,332	944	NA
Industrial and manufacturing engineering	NA	NA	NA	NA	NA	291	2,075	387	2,013	NA
Mechanical engineering	374	450	498	630	523	289	429	476	507	NA
Metallurgical and materials engineering (formerly metallurgy and materials engineering)	1,975	1,941	1,915	1,843	704	811	546	711	828	NA
Other engineering	6,237	6,262	7,253	8,787	7,841	8,343	7,642	9,070	9,584	NA
Other fields	NA	NA	NA	NA	NA	6,721	6,796	9,491	8,978	8,895
Business management and business administration	NA	NA	NA	NA	NA	120	106	235	141	NA
Communication and communications technologies	NA	NA	NA	NA	NA	12	21	32	58	NA
Education research	NA	NA	NA	NA	NA	987	1,063	1,084	1,095	NA
Humanities, including history	NA	NA	NA	NA	NA	*	*	*	25	NA
Law	NA	NA	NA	NA	NA	7	6	6	9	NA
Social work	NA	NA	NA	NA	NA	0	0	2	2	NA
Visual and performing arts	NA	NA	NA	NA	NA	0	0	0	0	NA
All other fields	NA	NA	NA	NA	NA	5,595	5,600	8,132	7,649	NA
Other sciences nec	3,461	4,521	3,812	4,405	5,773	NA	NA	NA	NA	NA

* = amount greater than \$0 but less than \$500,000. NA = not available; agency did not provide data.

nec = not elsewhere classified.

^a As of volume 71 (FYs 2021–22), other social sciences does not include education research or law; those fields were moved to the category other fields.**Note(s):**

Because of rounding, detail may not add to total. FYs 2020, 2021, and 2022 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). As of volume 71 (FYs 2021–22), the fields of R&D (formerly fields of science and engineering) were revised for consistency with other National Center for Science and Engineering Statistics surveys; some fields were added, merged, or split, and some fields were renamed. Therefore, the data are not directly comparable with totals reported in previous years. For additional notes associated with the taxonomy changes to the fields listed in the table, see [technical table A-3](https://ncses.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://ncses.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 92. Federal obligations for basic research, by detailed field of science and engineering: FYs 2005–15

(Dollars in millions)

Field	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
All fields	27,140	26,585	26,866	27,154	32,879	31,795	29,314	30,959	29,779	31,588	31,527
Computer sciences and mathematics	1,228	1,208	1,294	1,407	1,861	1,663	1,788	1,795	1,691	1,918	1,984
Computer sciences	658	671	708	734	978	874	936	922	860	959	1,025
Mathematics	543	519	561	645	804	717	741	806	757	824	874
Other computer sciences and mathematics	28	19	24	29	79	73	111	66	73	134	86
Engineering	2,300	2,365	2,630	2,736	3,406	3,491	3,168	3,459	3,408	3,545	3,694
Aeronautical engineering	318	243	195	150	185	151	153	402	409	447	469
Astronautical engineering	73	58	44	32	35	32	33	79	85	93	99
Chemical engineering	67	68	109	112	168	143	183	94	84	104	60
Civil engineering	62	67	124	126	186	155	149	35	28	28	54
Electrical engineering	213	205	246	221	297	295	281	299	259	248	228
Mechanical engineering	77	70	78	66	84	80	82	156	147	129	126
Metallurgy and materials engineering	666	811	960	993	1,113	1,091	1,077	1,186	1,201	1,233	1,290
Other engineering	826	842	875	1,036	1,338	1,544	1,209	1,207	1,194	1,264	1,368
Environmental sciences	1,966	1,849	1,728	1,593	2,143	1,787	1,796	2,259	2,396	2,753	2,738
Atmospheric sciences	744	666	584	523	650	597	612	952	995	1,037	1,051
Geological sciences	470	445	427	303	430	333	396	502	411	418	433
Oceanography	431	416	437	434	549	472	483	494	457	483	432
Other environmental sciences	321	322	280	333	514	386	305	310	533	816	822
Life sciences	15,248	14,934	15,643	15,557	17,587	17,748	15,373	16,016	15,317	16,019	15,210
Agricultural sciences	511	514	533	495	531	571	547	480	462	514	554
Biological sciences (excluding environmental biology)	7,608	7,700	8,076	8,259	9,600	9,417	8,277	8,317	7,919	8,284	7,758
Environmental biology	339	344	351	368	467	435	435	407	384	395	399
Medical sciences	5,703	5,454	5,504	5,314	5,748	5,787	5,086	5,528	5,326	5,564	5,270
Other life sciences	1,087	922	1,180	1,122	1,241	1,537	1,029	1,283	1,226	1,263	1,228
Physical sciences	3,739	3,516	3,544	3,403	4,121	3,984	3,815	4,557	4,432	4,637	4,621
Astronomy	778	687	593	483	618	504	499	925	974	1,036	1,073
Chemistry	764	721	733	726	835	828	774	776	715	722	672
Physics	1,996	1,911	2,012	1,987	2,370	2,377	2,275	2,568	2,469	2,576	2,569
Other physical sciences	200	197	207	208	298	275	267	287	275	303	306
Psychology	1,040	945	979	936	1,100	1,129	979	1,088	1,016	1,038	1,000
Biological aspects	*	1	1	1	2	10	13	13	14	14	14
Social aspects	4	5	5	7	19	18	17	13	16	13	14
Other psychological sciences	1,035	939	972	929	1,080	1,101	949	1,061	986	1,011	972
Social sciences	391	381	361	330	432	359	371	381	374	386	345
Anthropology	15	14	15	15	28	24	26	27	24	24	28
Economics	51	46	52	44	52	44	54	55	58	58	47
Political science	11	11	9	16	13	10	9	10	9	12	12

Table 92. Federal obligations for basic research, by detailed field of science and engineering: FYs 2005–15

(Dollars in millions)

Field	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Sociology	18	19	41	14	33	30	36	39	24	31	27
Other social sciences	296	290	244	241	306	251	246	251	258	261	230
Other sciences nec	1,228	1,386	686	1,191	2,228	1,633	2,023	1,405	1,146	1,292	1,935

* = amount greater than \$0 but less than \$500,000.

nec = not elsewhere classified.

Note(s):

Because of rounding, detail may not add to total. FYs 2009 and 2010 obligations include additional funding provided by the American Recovery and Reinvestment Act of 2009.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 93. Federal obligations for basic research, by detailed field of R&D: FYs 2016–25

(Dollars in millions)

Field	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
All fields	32,293	33,271	36,195	40,017	41,547	42,266	45,414	46,981	47,494	45,361
Computer and information sciences	NA	NA	NA	NA	NA	2,264	2,319	2,342	3,893	2,179
Computer sciences and mathematics	2,110	1,877	2,085	2,306	2,524	NA	NA	NA	NA	NA
Computer sciences	997	999	1,032	1,151	1,230	NA	NA	NA	NA	NA
Mathematics	1,019	824	943	1,039	504	NA	NA	NA	NA	NA
Other computer sciences and mathematics	93	55	110	116	791	NA	NA	NA	NA	NA
Geosciences, atmospheric sciences, and ocean sciences (formerly environmental sciences)	2,765	2,687	2,996	3,252	3,167	3,057	3,441	3,661	3,494	3,577
Atmospheric science and meteorology (formerly atmospheric sciences)	1,080	1,088	508	514	563	561	557	583	546	NA
Geological and earth sciences (formerly geological sciences)	433	439	183	200	262	315	302	299	292	NA
Ocean sciences and marine sciences (formerly oceanography)	442	385	419	432	470	489	519	513	464	NA
Other geosciences, atmospheric sciences, and ocean sciences (formerly other environmental sciences)	810	776	1,887	2,106	1,872	1,692	2,064	2,266	2,192	NA
Life sciences	15,577	16,574	18,176	18,881	20,805	19,016	19,052	18,353	17,606	17,348
Agricultural sciences	566	584	597	635	682	587	648	671	676	NA
Biological and biomedical sciences	NA	NA	NA	NA	NA	9,762	9,780	9,567	9,208	NA
Biological sciences (excluding environmental biology)	8,026	8,573	9,159	9,786	10,326	NA	NA	NA	NA	NA
Environmental biology	381	372	514	490	471	NA	NA	NA	NA	NA
Health sciences (formerly medical sciences)	5,337	5,717	6,415	6,389	7,460	6,832	6,611	6,007	5,652	NA
Natural resources and conservation	NA	NA	NA	NA	NA	32	44	46	16	NA
Other life sciences	1,267	1,327	1,492	1,581	1,866	1,803	1,968	2,062	2,054	NA
Mathematics and statistics	NA	NA	NA	NA	NA	503	608	671	585	606
Physical sciences	4,707	4,717	5,931	7,907	6,513	8,184	9,449	9,532	9,447	9,340
Astronomy and astrophysics (formerly astronomy)	1,093	1,139	879	1,577	870	964	1,112	1,339	1,249	NA
Chemistry	688	694	739	691	754	792	1,260	1,170	1,476	NA
Materials science	NA	NA	NA	NA	NA	337	355	402	397	NA
Physics	2,593	2,597	2,518	2,571	2,516	2,537	2,658	3,053	2,829	NA
Other physical sciences	333	286	1,795	3,068	2,373	3,554	4,064	3,566	3,496	NA
Psychology	990	1,027	1,147	1,366	1,612	1,934	2,288	2,513	2,661	2,627
Biological aspects	16	10	19	16	13	13	18	16	16	NA
Social aspects	12	13	10	11	12	17	14	13	9	NA
Other psychological sciences	962	1,004	1,118	1,339	1,587	1,904	2,256	2,484	2,636	NA
Social sciences	378	359	374	451	440	537	766	1,166	1,331	1,301
Anthropology	29	29	31	33	18	22	36	37	18	NA
Economics	51	56	53	86	39	53	58	84	60	NA
Political science and government (formerly political science)	14	12	9	10	5	1	*	1	6	NA
Sociology, demography, and population studies (formerly sociology)	24	23	24	37	20	43	33	48	31	NA
Other social sciences ^a	260	239	258	286	358	418	639	996	1,216	NA
Engineering	3,658	3,686	3,586	3,618	2,898	3,212	3,739	3,991	3,929	3,754
Aeronautical engineering	479	450	99	71	70	NA	NA	NA	NA	NA

Table 93. Federal obligations for basic research, by detailed field of R&D: FYs 2016–25

(Dollars in millions)

Field	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
Aerospace, aeronautical, and astronautical engineering	NA	NA	NA	NA	NA	270	293	265	110	NA
Astronautical engineering	99	101	8	9	15	NA	NA	NA	NA	NA
Bioengineering and biomedical engineering	NA	NA	NA	NA	NA	27	84	96	64	NA
Chemical engineering	70	76	72	75	94	121	124	123	95	NA
Civil engineering	38	27	14	12	16	70	70	73	70	NA
Electrical, electronics, and communications engineering (formerly electrical engineering)	228	225	238	219	205	200	211	242	228	NA
Industrial and manufacturing engineering	NA	NA	NA	NA	NA	41	45	67	35	NA
Mechanical engineering	123	124	111	103	116	114	135	137	127	NA
Metallurgical and materials engineering (formerly metallurgy and materials engineering)	1,279	1,306	1,364	1,223	281	238	201	305	353	NA
Other engineering	1,342	1,376	1,680	1,906	2,100	2,131	2,575	2,683	2,847	NA
Other fields	NA	NA	NA	NA	NA	3,558	3,752	4,753	4,547	4,629
Business management and business administration	NA	NA	NA	NA	NA	34	27	129	46	NA
Communication and communications technologies	NA	NA	NA	NA	NA	0	1	1	1	NA
Education research	NA	NA	NA	NA	NA	360	357	411	358	NA
Humanities, including history	NA	NA	NA	NA	NA	*	*	*	25	NA
Law	NA	NA	NA	NA	NA	7	6	6	6	NA
Social work	NA	NA	NA	NA	NA	0	0	0	0	NA
Visual and performing arts	NA	NA	NA	NA	NA	0	0	0	0	NA
All other fields	NA	NA	NA	NA	NA	3,158	3,361	4,207	4,112	NA
Other sciences nec	2,108	2,344	1,900	2,237	3,588	NA	NA	NA	NA	NA

* = amount greater than \$0 but less than \$500,000. NA = not available; agency did not provide data.

nec = not elsewhere classified.

^a As of volume 71 (FYs 2021–22), other social sciences does not include education research or law; those fields were moved to the category other fields.**Note(s):**

Because of rounding, detail may not add to total. FYs 2020, 2021, and 2022 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). As of volume 71 (FYs 2021–22), the fields of R&D (formerly fields of science and engineering) were revised for consistency with other National Center for Science and Engineering Statistics surveys; some fields were added, merged, or split, and some fields were renamed. Therefore, the data are not directly comparable with totals reported in previous years. For additional notes associated with the taxonomy changes to the fields listed in the table, see [technical table A-3](https://ncses.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://ncses.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 94. Federal obligations for applied research, by detailed field of science and engineering: FYs 2005–15

(Dollars in millions)

Field	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
All fields	26,598	26,951	27,228	26,740	30,813	31,933	28,751	31,027	29,753	31,604	32,298
Computer sciences and mathematics	1,755	1,607	1,652	1,640	1,750	1,749	1,586	1,733	1,736	1,965	1,878
Computer sciences	1,499	1,317	1,369	1,319	1,444	1,488	1,255	1,470	1,502	1,654	1,621
Mathematics	144	151	148	138	124	119	150	119	107	155	132
Other computer sciences and mathematics	112	139	135	183	183	141	180	144	128	157	125
Engineering	6,252	6,314	6,360	6,239	6,879	7,590	6,889	7,944	7,541	8,343	8,290
Aeronautical engineering	959	987	734	661	722	679	692	1,413	1,433	1,386	1,356
Astronautical engineering	421	419	297	256	335	358	377	611	652	576	562
Chemical engineering	217	227	245	234	279	367	292	255	335	432	314
Civil engineering	217	285	338	362	493	545	468	478	419	417	403
Electrical engineering	821	830	781	825	957	1,066	954	1,026	904	992	669
Mechanical engineering	247	228	260	227	230	283	228	216	402	374	198
Metallurgy and materials engineering	518	439	520	631	609	667	544	513	528	536	467
Other engineering	2,853	2,900	3,185	3,045	3,253	3,625	3,334	3,432	2,868	3,629	4,320
Environmental sciences	1,536	1,581	1,443	1,392	1,608	1,551	1,411	1,626	1,645	1,613	1,675
Atmospheric sciences	442	501	381	361	368	357	341	517	548	531	516
Geological sciences	203	209	211	215	324	198	201	224	215	143	211
Oceanography	340	329	351	355	285	272	241	319	331	365	294
Other environmental sciences	551	542	500	461	631	725	627	565	551	573	654
Life sciences	12,880	12,993	13,820	13,361	15,680	16,161	14,076	14,990	14,345	14,932	15,415
Agricultural sciences	583	594	606	526	589	560	538	462	441	491	766
Biological sciences (excluding environmental biology)	5,744	5,991	6,354	6,184	7,777	7,796	6,901	7,141	6,669	7,027	7,081
Environmental biology	360	342	406	490	497	381	420	390	398	426	420
Medical sciences	5,159	5,138	5,287	5,073	5,645	5,890	5,117	5,551	5,591	5,721	5,816
Other life sciences	1,034	928	1,166	1,089	1,172	1,533	1,100	1,447	1,246	1,267	1,331
Physical sciences	1,755	1,836	1,592	1,669	1,700	1,887	1,612	1,851	1,850	1,846	1,889
Astronomy	107	106	63	45	54	56	57	174	173	156	157
Chemistry	434	406	417	423	439	483	332	327	267	291	295
Physics	1,045	1,091	927	982	986	1,093	994	1,140	1,013	989	471
Other physical sciences	170	233	184	219	222	255	229	209	396	410	966
Psychology	852	802	859	805	986	1,026	908	999	919	930	995
Biological aspects	2	2	2	21	*	4	3	1	*	1	5
Social aspects	42	36	31	12	32	56	38	48	48	46	45
Other psychological sciences	807	764	825	771	953	967	867	949	870	883	945
Social sciences	706	743	786	647	725	838	891	743	863	1,049	792
Anthropology	3	1	1	2	2	*	*	3	2	2	2
Economics	165	156	198	169	178	230	344	289	275	286	290
Political science	22	34	33	13	12	5	3	3	2	1	4

Table 94. Federal obligations for applied research, by detailed field of science and engineering: FYs 2005–15

(Dollars in millions)

Field	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Sociology	52	125	177	81	106	103	97	116	113	127	102
Other social sciences	464	427	378	382	428	501	447	332	472	632	395
Other sciences nec	861	1,075	717	986	1,485	1,130	1,378	1,142	853	925	1,364

* = amount greater than \$0 but less than \$500,000.

nec = not elsewhere classified.

Note(s):

Because of rounding, detail may not add to total. FYs 2009 and 2010 obligations include additional funding provided by the American Recovery and Reinvestment Act of 2009.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 95. Federal obligations for applied research, by detailed field of R&D: FYs 2016–25

(Dollars in millions)

Field	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
All fields	34,812	36,600	38,392	41,101	43,758	43,649	48,418	54,274	52,062	49,879
Computer and information sciences	NA	NA	NA	NA	NA	3,086	2,535	2,793	2,771	2,909
Computer sciences and mathematics	2,113	2,017	2,122	2,024	3,388	NA	NA	NA	NA	NA
Computer sciences	1,818	1,736	1,856	1,746	3,050	NA	NA	NA	NA	NA
Mathematics	141	118	113	118	178	NA	NA	NA	NA	NA
Other computer sciences and mathematics	154	163	154	160	160	NA	NA	NA	NA	NA
Geosciences, atmospheric sciences, and ocean sciences (formerly environmental sciences)	1,685	1,783	1,571	1,823	1,873	1,985	2,125	2,223	2,199	2,277
Atmospheric science and meteorology (formerly atmospheric sciences)	517	564	288	310	345	327	403	513	473	NA
Geological and earth sciences (formerly geological sciences)	129	141	45	39	44	287	320	115	77	NA
Ocean sciences and marine sciences (formerly oceanography)	331	390	359	387	476	606	608	607	495	NA
Other geosciences, atmospheric sciences, and ocean sciences (formerly other environmental sciences)	708	688	879	1,086	1,007	764	793	988	1,154	NA
Life sciences	16,468	17,516	18,818	19,423	21,720	19,232	22,558	25,397	21,015	20,026
Agricultural sciences	717	769	728	811	731	486	620	537	579	NA
Biological and biomedical sciences	NA	NA	NA	NA	NA	8,466	11,547	15,224	10,163	NA
Biological sciences (excluding environmental biology)	7,897	7,982	8,670	9,125	9,839	NA	NA	NA	NA	NA
Environmental biology	408	412	409	434	431	NA	NA	NA	NA	NA
Health sciences (formerly medical sciences)	6,021	6,931	7,150	7,386	8,722	8,176	8,095	7,274	7,856	NA
Natural resources and conservation	NA	NA	NA	NA	NA	195	203	314	391	NA
Other life sciences	1,426	1,421	1,862	1,668	1,997	1,909	2,092	2,048	2,027	NA
Mathematics and statistics	NA	NA	NA	NA	NA	212	296	326	280	286
Physical sciences	1,999	1,864	1,951	1,909	1,907	1,864	2,650	3,171	3,312	3,163
Astronomy and astrophysics (formerly astronomy)	154	153	8	6	1	1	*	1	7	NA
Chemistry	311	275	382	434	390	349	755	749	1,146	NA
Materials science	NA	NA	NA	NA	NA	215	179	191	241	NA
Physics	1,139	1,079	1,023	875	1,061	618	1,019	1,221	1,145	NA
Other physical sciences	395	358	537	593	455	681	698	1,009	774	NA
Psychology	1,032	1,054	1,180	1,387	1,664	1,836	2,300	2,434	2,625	2,609
Biological aspects	4	*	1	1	1	*	11	10	5	NA
Social aspects	44	43	38	42	30	34	34	23	24	NA
Other psychological sciences	983	1,011	1,141	1,344	1,634	1,801	2,255	2,402	2,596	NA
Social sciences	849	668	665	704	698	834	1,152	1,513	1,807	1,752
Anthropology	2	3	4	2	1	20	21	2	2	NA
Economics	320	238	230	209	164	175	187	214	238	NA
Political science and government (formerly political science)	1	5	2	4	8	9	8	3	3	NA
Sociology, demography, and population studies (formerly sociology)	173	155	119	187	132	69	70	80	107	NA
Other social sciences ^a	352	267	311	302	393	560	866	1,214	1,456	NA
Engineering	9,314	9,522	10,173	11,661	10,324	11,438	11,758	11,679	13,622	12,591
Aeronautical engineering	1,357	1,442	1,019	1,128	1,023	NA	NA	NA	NA	NA

Table 95. Federal obligations for applied research, by detailed field of R&D: FYs 2016–25

(Dollars in millions)

Field	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
Aerospace, aeronautical, and astronautical engineering	NA	NA	NA	NA	NA	2,334	2,099	1,564	1,248	NA
Astronautical engineering	551	550	788	821	901	NA	NA	NA	NA	NA
Bioengineering and biomedical engineering	NA	NA	NA	NA	NA	13	64	66	243	NA
Chemical engineering	303	226	621	379	694	612	624	898	1,293	NA
Civil engineering	424	579	462	555	459	579	574	609	552	NA
Electrical, electronics, and communications engineering (formerly electrical engineering)	835	878	772	751	675	691	661	1,090	716	NA
Industrial and manufacturing engineering	NA	NA	NA	NA	NA	250	2,029	320	1,978	NA
Mechanical engineering	251	326	388	527	407	175	294	338	380	NA
Metallurgical and materials engineering (formerly metallurgy and materials engineering)	696	635	552	620	423	573	345	406	475	NA
Other engineering	4,895	4,886	5,573	6,881	5,741	6,212	5,067	6,387	6,737	NA
Other fields	NA	NA	NA	NA	NA	3,163	3,045	4,738	4,431	4,266
Business management and business administration	NA	NA	NA	NA	NA	86	79	107	94	NA
Communication and communications technologies	NA	NA	NA	NA	NA	12	21	31	58	NA
Education research	NA	NA	NA	NA	NA	627	707	673	736	NA
Humanities, including history	NA	NA	NA	NA	NA	*	*	*	*	NA
Law	NA	NA	NA	NA	NA	*	*	0	3	NA
Social work	NA	NA	NA	NA	NA	0	0	2	2	NA
Visual and performing arts	NA	NA	NA	NA	NA	0	0	0	0	NA
All other fields	NA	NA	NA	NA	NA	2,437	2,238	3,925	3,537	NA
Other sciences nec	1,352	2,176	1,912	2,168	2,185	NA	NA	NA	NA	NA

* = amount greater than \$0 but less than \$500,000. NA = not available; agency did not provide data.

nec = not elsewhere classified.

^a As of volume 71 (FYs 2021–22), other social sciences does not include education research or law; those fields were moved to the category other fields.**Note(s):**

Because of rounding, detail may not add to total. FYs 2020, 2021, and 2022 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). As of volume 71 (FYs 2021–22), the fields of R&D (formerly fields of science and engineering) were revised for consistency with other National Center for Science and Engineering Statistics surveys; some fields were added, merged, or split, and some fields were renamed. Therefore, the data are not directly comparable with totals reported in previous years. For additional notes associated with the taxonomy changes to the fields listed in the table, see [technical table A-3](https://ncses.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://ncses.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 96. Federal obligations for research and development for selected agencies, by state or location: FYs 2005–15

(Dollars in millions)

State or location	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
All locations	116,586	119,302	124,900	125,092	138,975	138,156	132,794	135,995	122,985	127,927	125,846
Alabama	3,108	2,198	2,248	2,782	3,023	3,477	5,202	5,159	4,716	4,484	4,538
Alaska	495	212	264	222	247	236	196	159	185	137	208
Arizona	2,959	2,460	2,422	2,449	3,142	3,426	2,917	2,405	2,369	1,606	1,644
Arkansas	165	162	178	145	171	182	179	184	167	191	106
California	19,964	26,898	26,987	19,939	26,989	27,227	22,769	18,036	16,181	15,799	15,281
Colorado	2,265	2,189	2,798	2,668	3,862	4,348	3,816	3,745	3,394	3,611	3,506
Connecticut	2,400	1,947	2,117	1,815	2,365	2,193	2,426	2,231	2,517	2,287	2,293
Delaware	94	113	131	144	225	129	115	109	112	130	108
District of Columbia	4,162	4,193	4,278	17,537	4,265	3,890	3,014	3,339	3,908	3,980	4,222
Florida	2,590	3,346	4,078	2,290	3,734	3,142	2,482	2,356	2,282	2,448	2,933
Georgia	2,182	1,751	1,686	1,386	1,958	1,520	1,422	1,133	1,130	1,253	1,182
Hawaii	600	380	379	348	387	389	404	383	348	326	305
Idaho	290	300	287	355	388	479	430	447	381	598	533
Illinois	2,128	2,003	2,145	2,169	2,746	2,631	2,878	2,399	2,327	2,369	2,483
Indiana	567	583	597	672	1,109	989	903	838	693	771	678
Iowa	488	549	662	635	683	909	695	613	560	512	567
Kansas	358	294	318	300	464	348	368	232	234	187	194
Kentucky	296	240	222	252	319	287	242	308	307	297	297
Louisiana	444	323	419	406	406	331	597	314	278	285	254
Maine	292	229	379	168	194	163	180	248	170	131	138
Maryland	12,501	12,747	11,906	13,313	15,971	15,879	15,751	15,598	15,606	16,890	16,751
Massachusetts	6,592	6,876	7,529	6,883	9,047	8,747	7,758	6,279	5,691	6,269	6,055
Michigan	1,177	1,700	1,726	1,866	2,427	2,510	2,153	2,206	1,826	1,853	1,799
Minnesota	768	1,242	1,387	1,393	1,551	1,063	949	961	940	947	817
Mississippi	438	555	434	435	385	422	588	543	568	590	489
Missouri	4,202	1,316	1,221	1,111	1,285	1,151	1,193	1,123	1,056	1,039	1,296
Montana	182	151	654	159	171	139	182	190	135	171	152
Nebraska	193	178	230	205	220	240	262	262	201	234	216
Nevada	593	436	321	313	558	380	478	482	585	510	394
New Hampshire	514	400	340	294	458	350	406	491	296	336	342
New Jersey	2,525	2,173	2,192	2,193	2,492	2,853	2,583	2,167	1,727	1,968	1,632
New Mexico	3,593	3,315	3,478	3,503	3,696	3,338	3,456	3,379	3,421	3,714	3,543
New York	5,320	5,368	5,368	4,651	6,242	5,602	5,042	4,727	4,605	4,581	4,567
North Carolina	1,806	1,771	1,828	1,773	2,022	2,151	2,060	1,922	1,759	1,881	1,892
North Dakota	118	118	116	98	101	120	118	88	90	80	82
Ohio	2,961	2,724	3,661	2,580	4,460	4,099	3,555	3,436	2,426	2,454	2,639
Oklahoma	401	271	253	261	370	430	463	450	262	317	450

Table 96. Federal obligations for research and development for selected agencies, by state or location: FYs 2005–15

(Dollars in millions)

State or location	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Oregon	650	510	506	581	635	675	711	632	529	602	558
Pennsylvania	3,677	3,300	3,360	3,279	4,298	4,963	4,513	3,725	3,295	3,695	3,710
Rhode Island	889	623	628	644	679	670	610	557	486	555	519
South Carolina	493	374	422	453	662	662	497	555	397	476	447
South Dakota	70	76	62	76	79	75	61	63	57	69	73
Tennessee	1,426	1,489	1,908	1,690	2,081	2,105	1,899	2,112	2,119	2,023	2,313
Texas	5,187	5,915	6,693	5,030	6,031	6,896	5,475	5,620	5,234	4,678	5,574
Utah	1,058	846	991	700	1,169	1,709	1,756	972	919	1,222	1,144
Vermont	263	106	108	121	151	142	124	103	103	116	82
Virginia	8,746	8,994	9,088	9,282	9,381	9,112	8,287	8,130	6,488	7,652	7,487
Washington	2,641	4,087	4,751	4,340	4,157	3,915	4,931	2,757	3,433	3,565	2,362
West Virginia	808	301	219	225	263	313	240	263	171	208	239
Wisconsin	652	636	671	661	886	796	742	734	654	701	701
Wyoming	38	36	37	47	65	37	37	76	41	46	53
Outlying areas	161	161	178	160	237	263	269	193	229	318	347
Puerto Rico	101	99	86	85	96	95	97	71	83	71	66
Other areas ^a	59	62	93	75	141	168	172	122	146	247	281
Offices abroad ^b	97	138	40	87	68	54	36	92	166	38	28
Undistributed ^c	NA	NA	NA	NA	NA	NA	4,373	20,468	15,211	16,728	15,624

NA = not available; agency did not provide data.

^a Other areas includes American Samoa, Baker Island, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Navassa Island, Northern Mariana Islands, Palmyra Atoll, U.S. Virgin Islands, and Wake Island.^b Offices abroad includes R&D performed or administered in foreign countries by the U.S. government.^c Undistributed includes Department of Defense (DOD) obligations for which the location of performance is not reported. It includes DOD obligations for industry R&D that were included in individual state totals prior to FY 2012 and obligations for other performers that were not reported prior to FY 2011.**Note(s):**

Because of rounding, detail may not add to total. Through volume 70 (FYs 2020–21), 11 agencies were required to report data for this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. Obligations of these 11 agencies represented more than 97% of total federal R&D obligations in FY 2020. Starting with volume 62 (FYs 2012–14), an undistributed category was added to the geographic location tables for DOD obligations for which the location of performance is not reported. It includes DOD obligations for industry R&D that were included in individual state totals prior to FY 2012 and DOD obligations for other performers that were not reported prior to FY 2011. This change was applied retroactively to FY 2011 data. Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by reporting agencies, corresponding corrections to geographic distributions are rarely obtainable. Geographic distribution of Department of Defense development funding to industry reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D. FYs 2009 and 2010 obligations include additional funding provided by the American Recovery and Reinvestment Act of 2009. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://ncses.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://ncses.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 97. Federal obligations for research and development, by state or location: FYs 2016–24

(Dollars in millions)

State or location	2016	2017	2018	2019	2020	2021	2022	2023	2024
All locations	113,002	115,508	125,737	138,170	162,959	188,887	189,648	185,298	193,144
Alabama	4,354	8,663	5,174	5,414	3,070	3,970	4,087	5,121	7,780
Alaska	212	280	300	334	279	323	273	361	373
Arizona	1,549	1,199	1,737	2,001	1,939	1,675	2,388	2,662	2,348
Arkansas	308	170	206	179	501	300	268	255	325
California	15,756	15,887	17,237	19,159	22,464	22,722	23,272	25,468	24,604
Colorado	4,183	3,396	4,917	5,268	5,024	6,292	4,639	7,518	9,213
Connecticut	2,366	2,349	2,568	2,673	2,566	2,600	2,642	2,220	2,127
Delaware	142	169	162	163	222	307	341	492	251
District of Columbia	4,204	4,867	6,158	6,228	16,315	37,490	33,943	9,875	10,177
Florida	2,782	2,880	3,179	3,892	4,061	4,095	4,250	4,885	4,634
Georgia	1,301	1,285	1,350	1,504	1,913	1,654	1,821	2,309	1,988
Hawaii	284	275	441	412	394	486	371	499	487
Idaho	568	679	824	920	840	672	702	835	918
Illinois	3,922	2,553	2,911	2,998	3,209	3,534	3,469	3,924	4,014
Indiana	719	690	781	894	1,104	1,081	1,277	1,614	2,814
Iowa	496	520	525	518	702	686	761	847	831
Kansas	188	212	233	283	352	414	445	594	516
Kentucky	273	289	303	313	354	542	413	498	466
Louisiana	279	397	321	432	437	457	512	488	495
Maine	137	158	188	189	185	249	230	284	298
Maryland	16,640	15,417	17,779	16,992	22,736	17,615	20,259	21,107	21,456
Massachusetts	5,533	5,238	6,036	6,838	8,850	9,570	8,495	9,422	9,529
Michigan	1,796	1,491	1,630	2,054	1,925	2,077	2,390	2,933	2,599
Minnesota	859	986	1,031	1,029	1,448	1,146	1,239	1,398	1,364
Mississippi	448	449	820	505	472	500	1,150	516	479
Missouri	1,259	1,604	1,492	2,375	2,080	2,059	1,838	2,116	2,376
Montana	170	151	195	191	213	287	292	489	265
Nebraska	205	211	211	244	255	303	325	349	332
Nevada	286	338	400	375	306	573	520	505	518
New Hampshire	374	351	472	669	483	526	445	577	530
New Jersey	1,677	1,963	2,367	2,834	2,885	3,400	3,386	2,380	1,942
New Mexico	3,662	3,383	3,630	3,756	3,502	3,884	3,493	3,946	3,675
New York	4,744	4,955	5,366	6,162	8,148	6,833	6,726	7,596	6,381
North Carolina	1,906	2,005	2,270	2,417	3,271	3,620	3,724	3,598	3,284
North Dakota	104	75	111	73	140	168	153	174	210
Ohio	2,497	2,550	4,207	5,188	5,216	3,861	8,243	5,636	10,321
Oklahoma	349	368	481	506	537	1,505	458	564	613

Table 97. Federal obligations for research and development, by state or location: FYs 2016–24

(Dollars in millions)

State or location	2016	2017	2018	2019	2020	2021	2022	2023	2024
Oregon	544	573	627	697	814	1,070	812	902	782
Pennsylvania	3,981	3,788	4,148	4,093	5,214	4,547	4,912	5,083	5,152
Rhode Island	627	615	662	723	876	866	895	927	930
South Carolina	461	505	561	646	822	1,434	1,162	3,569	2,559
South Dakota	69	77	81	89	131	139	134	129	130
Tennessee	2,479	2,491	2,564	3,578	3,151	3,727	3,385	4,041	3,894
Texas	5,296	5,319	4,677	5,067	6,135	6,461	5,475	6,249	7,674
Utah	938	1,058	1,110	1,301	1,141	2,440	3,196	4,379	5,203
Vermont	82	81	97	120	129	244	162	289	190
Virginia	7,384	6,311	7,187	8,029	9,650	9,775	10,144	14,998	15,116
Washington	2,084	2,624	2,746	3,195	3,280	3,737	3,585	3,526	3,263
West Virginia	456	141	281	142	150	200	212	258	298
Wisconsin	723	730	759	840	908	989	1,115	1,158	1,141
Wyoming	44	46	49	68	87	197	80	77	111
Outlying areas	331	104	496	521	195	229	142	162	566
American Samoa	NA	NA	NA	NA	NA	NA	NA	3	2
Guam	NA	NA	NA	NA	NA	NA	NA	16	9
Northern Mariana Islands	NA	NA	NA	NA	NA	NA	NA	5	2
Puerto Rico	72	68	75	82	88	120	102	92	90
U.S. Virgin Islands	NA	NA	NA	NA	NA	NA	NA	11	5
Other areas ^a	259	36	421	439	107	109	41	35	457
Offices abroad ^b	4	2	12	4	48	179	21	82	109
Undistributed ^c	969	2,594	1,666	3,073	1,829	5,177	4,973	5,412	5,492

NA = not available; agency did not provide data.

^a Through volume 72 (FYs 2022–23), other areas included American Samoa, Guam, Northern Mariana Islands, and U.S. Virgin Islands as well as Baker Island, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Navassa Island, Palmyra Atoll, and Wake Island. As of volume 73 (FYs 2023–24), obligations were collected separately for American Samoa, Guam, Northern Mariana Islands, and U.S. Virgin Islands.

^b Offices abroad includes R&D performed or administered in foreign countries by the U.S. government.

^c Undistributed includes Department of Defense (DOD) obligations for which the location of performance is not reported. It includes DOD obligations for business (formerly industry) R&D that were included in individual state totals prior to FY 2012 and obligations for other performers that were not reported prior to FY 2011. The undistributed total for FY 2019 also include Department of Health and Human Services' Biomedical Advanced Research and Development Authority obligations for which the location of performance could not be reported.

Note(s):

Because of rounding, detail may not add to total. Through volume 70 (FYs 2020–21), 11 agencies were required to report data for this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. Obligations of these 11 agencies represented more than 97% of total federal R&D obligations in FY 2020. As of volume 71, all agencies report data for this section of the survey; therefore, the data are not directly comparable with totals reported in previous years. Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by reporting agencies, corresponding corrections to geographic distributions are rarely obtainable. Geographic distribution of DOD development funding to businesses reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D. Beginning with FY 2016, the totals reported for development obligations represent a refinement to this category by more narrowly defining it to be "experimental development." Most notably, totals for development do not include the DOD Budget Activity 7 (Operational System Development) nor Budget Activity 8 (Software and Digital Technology Pilot Programs) obligations. Those funds, previously included in DOD's development obligation totals, support the development efforts to upgrade systems that have been fielded or have received approval for full-rate production and anticipate production funding in the current or subsequent fiscal year. Therefore, the data are not directly comparable with totals reported in previous years. FYs 2020, 2021, and 2022 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). For additional notes associated with the agencies listed in this table, see [technical table A-2 at https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables).

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 98. Federal obligations for R&D plant for selected agencies, by state or location: FYs 2005–15

(Dollars in millions)

State or location	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
All locations	3,749	2,093	2,111	1,893	3,591	6,563	4,100	2,089	1,856	2,178	2,792
Alabama	27	6	1	3	4	98	93	3	39	12	14
Alaska	16	5	8	4	174	58	6	7	8	8	8
Arizona	7	4	63	6	21	195	30	3	1	29	86
Arkansas	1	2	9	6	9	28	6	6	3	6	5
California	972	428	405	291	475	1,088	997	118	166	247	307
Colorado	89	98	184	116	279	300	141	108	151	170	74
Connecticut	88	4	2	6	3	123	94	2	2	3	2
Delaware	*	*	*	*	1	13	*	1	*	1	*
District of Columbia	33	106	73	77	180	365	237	135	168	225	40
Florida	107	2	11	13	57	141	90	48	38	104	30
Georgia	99	129	132	36	54	58	45	51	92	37	5
Hawaii	44	6	8	3	25	38	23	15	13	15	14
Idaho	23	7	9	6	17	25	31	41	1	3	81
Illinois	105	85	89	62	234	281	115	245	103	109	126
Indiana	4	3	4	4	7	35	7	2	3	1	8
Iowa	32	62	64	11	11	28	7	8	8	4	2
Kansas	10	*	2	*	3	13	4	6	2	1	816
Kentucky	25	7	1	6	3	22	5	8	1	1	1
Louisiana	15	37	6	3	27	28	15	1	12	2	1
Maine	4	4	2	1	6	1	1	*	2	1	1
Maryland	515	251	157	262	239	1,137	405	235	264	203	208
Massachusetts	90	49	33	14	49	103	31	28	14	27	25
Michigan	3	4	3	1	11	45	4	24	24	60	96
Minnesota	4	1	5	1	8	24	24	2	2	3	3
Mississippi	11	20	19	3	25	78	22	14	15	14	18
Missouri	11	6	1	2	6	31	4	7	3	10	5
Montana	6	7	1	1	2	23	*	0	1	*	1
Nebraska	*	1	1	1	1	22	1	1	1	1	3
Nevada	7	41	32	4	1	2	4	1	*	1	*
New Hampshire	3	4	1	1	2	11	2	2	1	*	1
New Jersey	51	57	90	53	83	74	40	52	56	72	45
New Mexico	183	111	29	185	109	191	97	54	83	90	86
New York	97	101	80	82	326	310	211	186	94	173	204
North Carolina	8	4	3	5	12	37	9	11	7	8	6
North Dakota	4	*	0	1	2	6	*	1	0	*	*
Ohio	26	17	21	17	24	101	55	62	5	4	8
Oklahoma	4	1	3	13	6	19	13	11	8	7	10

Table 98. Federal obligations for R&D plant for selected agencies, by state or location: FYs 2005–15

(Dollars in millions)

State or location	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Oregon	4	3	4	3	5	36	18	10	10	12	14
Pennsylvania	25	17	13	35	38	127	15	23	13	10	35
Rhode Island	2	1	*	1	5	6	3	6	6	18	20
South Carolina	21	3	7	11	15	25	19	16	13	16	16
South Dakota	2	*	1	*	2	3	1	1	1	2	*
Tennessee	199	112	144	189	330	372	315	248	223	293	264
Texas	487	42	7	21	40	430	429	35	15	9	9
Utah	4	*	4	2	84	12	1	2	4	1	*
Vermont	1	*	*	1	1	3	1	*	*	2	*
Virginia	170	129	284	269	269	215	345	170	132	104	31
Washington	34	30	30	13	215	89	49	52	41	35	37
West Virginia	10	21	16	13	52	36	21	15	*	15	14
Wisconsin	58	65	47	31	37	33	10	11	6	7	9
Wyoming	1	*	1	0	*	1	1	*	1	1	*
Outlying areas	1	*	2	8	4	23	2	*	1	1	1
Puerto Rico	1	*	2	4	4	16	2	*	1	1	1
Other areas ^a	0	0	0	4	*	7	0	0	0	0	0
Offices abroad ^b	1	2	0	0	0	0	0	0	0	0	*

* = amount greater than \$0 but less than \$500,000.

^a Other areas includes American Samoa, Baker Island, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Navassa Island, Northern Mariana Islands, Palmyra Atoll, U.S. Virgin Islands, and Wake Island.^b Offices abroad includes federal obligations for R&D plant located in foreign countries.**Note(s):**

Because of rounding, detail may not add to total. Through volume 70 (FYs 2020–21), 11 agencies were required to report data for this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. Obligations of these 11 agencies represented more than 98% of federal R&D plant obligations in FY 2020. Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by reporting agencies, corresponding corrections to geographic distributions are rarely obtainable. FYs 2009 and 2010 obligations include additional funding provided by the American Recovery and Reinvestment Act of 2009. Starting with volume 62 (FYs 2012–14), an undistributed category was added to the geographic location tables for DOD obligations for which the location of performance is not reported. It includes DOD obligations for business R&D (formerly industry) that were included in individual state totals prior to FY 2012 and DOD obligations for other performers that were not reported prior to FY 2011. This change was applied retroactively to FY 2011 data. For additional notes associated with the agencies listed in this table, see [technical table A-2](https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table 99. Federal obligations for R&D plant, by state or location: FYs 2016–24

(Dollars in millions)

State or location	2016	2017	2018	2019	2020	2021	2022	2023	2024
All locations	2,402	2,594	3,806	4,329	6,081	4,282	6,172	5,664	5,210
Alabama	2	9	128	125	58	7	71	20	52
Alaska	10	7	17	7	12	9	12	38	22
Arizona	99	62	16	13	3	11	60	32	53
Arkansas	4	5	3	0	1	3	20	9	5
California	451	480	656	677	669	656	889	856	713
Colorado	113	46	267	365	141	137	75	154	128
Connecticut	1	2	3	1	*	20	14	7	4
Delaware	1	1	2	10	6	1	1	2	3
District of Columbia	50	32	325	151	98	134	163	166	48
Florida	29	18	80	34	128	74	78	78	61
Georgia	12	144	11	7	38	22	10	15	10
Hawaii	15	15	19	24	6	6	5	18	16
Idaho	89	117	0	3	250	322	818	954	576
Illinois	177	207	383	471	578	533	713	462	480
Indiana	8	4	4	9	1	2	1	2	*
Iowa	4	4	18	2	4	5	39	20	11
Kansas	1	14	11	12	13	13	10	12	1
Kentucky	3	*	2	7	64	6	14	1	8
Louisiana	3	17	21	26	24	30	58	263	65
Maine	1	1	1	*	0	0	*	1	*
Maryland	328	259	478	648	1,828	426	478	639	634
Massachusetts	30	30	18	40	19	22	92	18	19
Michigan	108	104	99	85	51	15	10	15	14
Minnesota	3	2	1	3	3	2	1	10	1
Mississippi	19	16	15	14	12	12	15	32	52
Missouri	12	6	5	11	45	11	20	5	3
Montana	4	*	3	*	2	*	1	2	*
Nebraska	*	*	*	1	0	2	24	1	25
Nevada	*	14	27	1	34	195	167	77	230
New Hampshire	2	*	2	1	3	7	6	12	4
New Jersey	46	47	49	81	41	205	77	69	48
New Mexico	66	40	87	257	73	202	145	142	148
New York	154	148	99	130	233	157	533	239	205
North Carolina	8	12	9	23	54	19	13	16	7
North Dakota	*	1	1	*	1	3	0	1	2
Ohio	121	76	83	95	81	67	74	76	97
Oklahoma	1	4	3	11	4	13	15	6	15

Table 99. Federal obligations for R&D plant, by state or location: FYs 2016–24

(Dollars in millions)

State or location	2016	2017	2018	2019	2020	2021	2022	2023	2024
Oregon	18	145	104	144	53	27	67	76	17
Pennsylvania	25	25	17	12	214	25	20	110	31
Rhode Island	28	37	19	28	28	17	19	29	205
South Carolina	26	19	20	22	16	15	24	90	23
South Dakota	1	2	1	*	8	7	7	12	4
Tennessee	195	250	431	513	694	673	967	451	619
Texas	30	33	71	65	128	66	41	59	131
Utah	1	1	1	0	1	1	5	5	1
Vermont	*	*	2	1	6	1	0	0	0
Virginia	83	130	122	104	157	57	188	255	167
Washington	13	4	36	56	122	36	56	74	54
West Virginia	*	1	20	1	2	2	*	3	102
Wisconsin	8	2	4	13	68	2	48	19	33
Wyoming	0	0	1	11	6	0	0	0	52
Outlying areas	1	1	9	18	2	5	7	11	9
American Samoa	0	0	0	0	0	0	0	0	0
Guam	0	0	0	0	0	0	0	0	0
Northern Mariana Islands	0	0	0	0	0	0	0	0	0
Puerto Rico	1	1	9	15	1	*	6	11	9
U.S. Virgin Islands	0	0	0	0	0	0	0	0	0
Other areas ^a	0	0	0	3	1	5	1	0	0
Offices abroad ^b	*	1	1	0	0	0	0	0	0
Undistributed ^c	1	0	0	0	0	0	1	0	0

* = amount greater than \$0 but less than \$500,000.

^a Through volume 72 (FYs 2022–23), other areas included American Samoa, Guam, Northern Mariana Islands, and U.S. Virgin Islands as well as Baker Island, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Navassa Island, Palmyra Atoll, and Wake Island. As of volume 73 (FYs 2023–24), obligations were collected separately for American Samoa, Guam, Northern Mariana Islands, and U.S. Virgin Islands.

^b Offices abroad includes federal obligations for R&D plant located in foreign countries.

^c Undistributed includes Department of Defense obligations for which the location of performance is not reported.

Note(s):

Because of rounding, detail may not add to total. Through volume 70 (FYs 2020–21), 11 agencies were required to report data for this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. Obligations of these 11 agencies represented more than 98% of federal R&D plant obligations in FY 2020. As of volume 71, all agencies report data for this section of the survey; therefore, the data are not directly comparable with totals reported in previous years. Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by reporting agencies, corresponding corrections to geographic distributions are rarely obtainable. FYs 2020, 2021, and 2022 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). For additional notes associated with the agencies listed in this table, see [technical table A-2](https://ncses.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables) at <https://ncses.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Technical Notes

Survey Overview (FYs 2024–25 Survey Cycle; Volume 74)

Purpose. The annual Survey of Federal Funds for Research and Development (Federal Funds for R&D) is the primary source of information about federal funding for R&D in the United States. The results of the survey are also used in the federal government’s calculation of U.S. gross domestic product at the national and state levels, for policy analysis, and for budget purposes for the Federal Laboratory Consortium for Technology Transfer, the Small Business Innovation Research, and the Small Business Technology Transfer. In addition, as of volume 71, the [Survey of Federal Science and Engineering Support to Universities, Colleges, and Nonprofit Institutions \(Federal S&E Support Survey\)](#) was integrated into this survey as a module, making Federal Funds for R&D the comprehensive data source on federal science and engineering (S&E) funding to individual academic and nonprofit institutions.

Data collection authority. The information is solicited under the authority of the National Science Foundation Act of 1950, as amended, and the America COMPETES Reauthorization Act of 2010. The National Center for Science and Engineering Statistics (NCSES) has reviewed this product for unauthorized disclosure of confidential information and approved its release (NCSES-DRN26-001).

Survey contractor. Synectics for Management Decisions, Inc. (Synectics).

Survey sponsor. NCSES within the U.S. National Science Foundation (NSF).

Key Survey Information

Frequency. Annual.

Initial survey year. 1951.

Reference period. FYs 2024–25.

Response unit. Federal agencies.

Sample or census. Census.

Population size. For the FYs 2024–25 cycle, a total of 29 federal agencies reported R&D data. (See section “[Survey Design](#)” for details.)

Sample size. Not applicable; the survey is a census of all federal agencies that conduct R&D programs, excluding the Central Intelligence Agency (CIA) and the National Security Agency (NSA).

Survey Design

Target population. The population consists of the federal agencies that conduct R&D programs, excluding the CIA and the NSA. For the FYs 2024–25 cycle, one agency known to conduct R&D programs, the Library of Congress, was unable to report and did not provide inputs to estimate data. Therefore, data users should use caution when comparing survey results. A total of 30 federal agencies (14 federal departments and 16 independent agencies) were subject to R&D data collection during this cycle.

Sampling frame. The survey is a census of all federal agencies that conduct R&D programs, excluding the CIA and the NSA. The agencies are identified from information in the president’s budget submitted to Congress. The Analytical Perspectives volume and the “Detailed Budget Estimates by Agency” section of the appendix to the president’s budget identify agencies that receive funding for R&D.

Sample design. Not applicable.

Data Collection and Processing Methods

Data collection. Data for FYs 2024–25 (volume 74) were collected by Synectics for Management Decisions, Inc. under contract to NCSES (for a full list of fiscal years canvassed by survey volume reference, see [table A-4](#)). Data collection began with an e-mail to each agency to verify the name, phone number, and e-mail address of each agency-level survey respondent. A Web-based data collection system is used for the survey. Because multiple subdivisions of some federal departments completed the survey, there were 67 agency-level respondents: 6 federal departments that reported for themselves, 46 agencies within another 8 federal departments, and 15 independent agencies. However, suboffices could also be authorized to enter data: in Federal Funds for R&D nomenclature, agency-level offices could authorize program offices, program offices could authorize field offices, and field offices could authorize branch offices. When these suboffices are included, there were 571 total respondents: 67 agencies, 110 program offices, 188 field offices, and 206 branch offices.

Since volume 66, each survey cycle collects information for 2 federal government fiscal years: the fiscal year just completed (FY 2024—i.e., 1 October 2023 through 30 September 2024) and the current fiscal year during the start of the survey collection period (i.e., FY 2025). FY 2024 data are completed transactions. FY 2025 data are estimates of congressional appropriation actions and apportionment and reprogramming decisions.

Data collection began on 28 May 2025, and the requested due date for data submissions was 6 August 2025. Data collection was extended until all surveyed agencies provided complete and final survey data in November 2025.

Mode. Federal Funds for R&D uses a Web-based data collection system. The Web-based system consists of a data collection component that allows survey respondents to enter their data online and a monitoring component that allows the data collection contractor to monitor support requests, data entry, and data issues. The Web-based system's two components are password protected so that only authorized respondents and staff can access them. However, some agencies submit their data in alternative formats such as Excel files, which are later imported into the Web-based system. All edit and trend checks are accomplished through the Web-based system. Final submission occurs through the Web-based system after all edit failures and trend checks have been resolved.

Response rate. The unit response rate is 99.8% (the Library of Congress did not report).

Data checking. Data errors in Federal Funds for R&D are flagged automatically by the Web-based data collection system: respondents cannot submit their final data to NCSES until all required fields have been completed without errors. Once data are submitted, specially written SAS programs are run to check each agency's submission to identify possible discrepancies, to ensure data from all suboffices are included correctly, and to check that there were no inadvertent shifts in reporting from one year to the next. As always, respondents are contacted to resolve potential reporting errors that cannot be reconciled by the narratives. Explanations of questionable data are noted by the survey respondents for NCSES review.

Imputation. None.

Weighting. None.

Variance estimation. Not applicable.

Survey Quality Measures

Sampling error. Not applicable.

Coverage error. Given the existence of a complete list of all eligible agencies, there is no known coverage error. The CIA and the NSA are purposely excluded. For the volume 74 (FYs 2024–25) survey cycle, one agency known for conducting R&D programs, the Library of Congress, was unable to report and did not provide inputs to estimate data. Therefore, data users should use caution when comparing survey results.

Nonresponse error. To increase item response, agencies are encouraged to estimate when actual data are unavailable. The survey instrument allows respondents to enter data or skip data fields; however, blank fields are not accepted for survey submission, and respondents must either populate the fields with data or with \$0 if the question is not applicable. There are several possible sources of nonresponse error by respondents, including inadvertently skipping data fields, skipping data fields when data are unavailable, or entering \$0 when specific data are unavailable.

Measurement error. Some measurement problems are known to exist in the Federal Funds of R&D data. Some agencies cannot report the full costs of R&D, the final performer of R&D, or R&D plant data.

For example, the Department of Defense (DOD) does not include headquarters' costs of planning and administering R&D programs, which are estimated at a fraction of 1% of its total cost. DOD has stated that identification of amounts at this level is impracticable.

The National Institutes of Health (NIH) in the Department of Health and Human Services (HHS) currently has many of its awards in its financial system without any field of R&D code. Therefore, NIH uses an alternate source to estimate its research dollars by field of R&D. NIH uses scientific class codes (based upon history of grant, content of the title, and the name of the awarding institute or center) as an approximation for field of R&D.

The National Aeronautics and Space Administration (NASA) does not include any field of R&D codes in its financial database. Consequently, NASA has developed a method of estimating what percentage of the agency's research dollars are allocated into the fields of R&D.

Agencies are asked to report the ultimate performer of R&D. However, through past workshops, NCSSES has learned that some agencies do not always track their R&D dollars to the ultimate performer of R&D. In the case of transfers to other federal agencies, the originating agency often does not have information on the final disposition of funding made by the receiving agency. Therefore, intragovernmental transfers, which are classified as federal intramural funding, may have some degree of extramural performance. This leads to some degree of misclassification of performers of R&D, but NCSSES has not determined the extent of the errors in performer misclassification by the reporting agencies.

Differences in agency and NCSSES classification of some performers will also lead to some degree of measurement error. For example, although many university research foundations are legally organized as nonprofit organizations and may be classified as such within a reporting agency's own system of record, NCSSES classifies these as component units of higher education. These classification differences may have contributed to differences in findings by Federal Funds for R&D and the Federal S&E Support Survey in federal agency obligations to both higher education and nonprofit institutions. Now that the Federal S&E Support Survey has been incorporated into Federal Funds for R&D, it is easier to identify and resolve large differences.

R&D plant data are underreported to some extent because of the difficulty some agencies, particularly DOD and NASA, encounter in identifying and reporting these data. DOD's respondents report obligations for R&D plant that are funded under the agency's appropriation for construction, but they can identify only a small portion of the R&D plant support that is within R&D contracts funded from DOD's appropriation for research, development, testing, and evaluation (RDT&E). Similarly, NASA respondents cannot separately identify the portions of industrial R&D contracts that apply to R&D plant because these data are subsumed in the R&D data covering industrial performance. NASA R&D plant data for other performing sectors are reported separately.

Data Comparability (Changes)

Data revisions. When completing the current year's survey, agencies naturally revise their estimates for the last year of the previous report—in this case, FY 2024. Sometimes, survey submissions also reflect reappraisals and revisions in classification of various aspects of agencies' R&D programs; in those instances, NCSSES requests that agencies provide revised prior year data to maintain consistency and comparability with the most recent R&D concepts.

For trend comparisons, use the historical data from only the most recent publication, which incorporates changes agencies have made in prior year data to reflect program reclassifications or other corrections. Do not use data published earlier.

Changes in survey coverage and population. For the FYs 2024–25 cycle, one agency known to conduct R&D programs, the Library of Congress, was unable to report and did not provide inputs to estimate data.

Changes in questionnaire.

- No changes were made to the standard and DOD questionnaires for volume 74, FYs 2024–25.
- One question was added to the volume 73 standard questionnaire to collect details on FY 2023 and FY 2024 obligations from Public Laws 117-58, 117-167, and 117-169. This information was collected from the DOD through three suboffices that were added under the Fourth Estate’s Office of the Secretary of Defense and presented in these tables under Other defense agencies. These data are available upon request.
- For volume 73, the DOD questionnaire, NCSES started collecting Budget Activity 8, Software and Digital Technology Pilot Programs obligations to ensure complete coverage of DOD RDT&E data. Obligations for Budget Activities 7 and 8 were collected as a combined amount. This change appeared on DOD questions 1, 3, 5, 9, 10, 14, 18, 19, 20, and 21.
- For volume 73, both questionnaire versions, separate rows for American Samoa, Guam, Northern Mariana Islands, and U.S. Virgin Islands were added to the “state” questions (standard questions 12 and 13, DOD questions 13, 14, and 15). Those territories were no longer included under Other U.S. territories as had been the case in previous years. The Other U.S. territories definition was changed to include only Baker Island, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Navassa Island, Palmyra Atoll, and Wake Island.
- The survey was redesigned for volume 71 (FYs 2021–22). The Federal S&E Support Survey was integrated as questions 18 and 19 on the standard questionnaire and questions 20 and 21 on the DOD questionnaire. (NCSES will continue to publish these data separately at <https://nces.nsf.gov/surveys/federal-support-survey/>.)
- For volume 71, four other new questions were added to the standard and DOD versions of the questionnaire; for the fiscal year just completed (FY 2021), the questions covered R&D deobligations (standard and DOD question 4), R&D obligations to nonfederal performers by type of agreement (grants and contracts) (standard question 10 and DOD question 11), R&D obligations provided to other federal agencies (standard question 11 and DOD question 12), and R&D and R&D plant obligations to University Affiliated Research Centers (standard question 17 and DOD question 19). The one new question added solely to the DOD questionnaire (DOD question 6) was about obligations for Small Business Innovation Research and Small Business Technology Transfer for the fiscal year just completed and the current fiscal year at the time of collection (i.e., FYs 2021 and 2022). Many of the other survey questions were reorganized and revised.
- For volume 71, some changes were made within the questions for consistency with other NCSES surveys. Among the performer categories, federally funded R&D centers (FFRDCs), which in previous volumes were included among the extramural performers, became one of the intramural performers. Other changes include the retitling of certain performer categories, where “industry” was changed to “businesses” and “universities and colleges” was changed to “higher education.”
- For volume 71, “field of R&D” was used instead of the former “field of science and engineering.” The survey started collecting field of R&D information for experimental development obligations; previously, field of R&D information was collected only for research obligations.
- For volume 71, federal obligations for research performed at higher education institutions, by detailed field of R&D, was asked of all agencies. Previously these data had been collected only from the Department of Agriculture (USDA), DOD, the Department of Energy (DOE), HHS, the Department of Homeland Security (DHS), NASA, and NSF.

- For volume 71, geographic distribution of R&D obligations was asked of all agencies. Previously, these data had only been collected from USDA, the Department of Commerce (DOC), DOD, DOE, HHS, DHS, NASA, and NSF. Agencies are asked to provide the principal location (state or outlying area) of the work performed by the primary contractor, grantee, or intramural organization; assign the obligations to the location of the headquarters of the U.S. primary contractor, grantee, or intramural organization; or, for DOD agencies, list the funds as undistributed for classified funds.
- For volume 71, collection of data on funding type (stimulus and non-stimulus) was limited to question 5 on type of R&D. The Biomedical Advanced Research and Development Authority (BARDA) accounted for 93% of all COVID-19 pandemic-related R&D in FY 2021 and 94% in the FY 2022 preliminary estimate.
- For volume 70 (FYs 2020–21), agencies were requested to report COVID-19 pandemic-related R&D from the agency's initial appropriations, as well as from any stimulus funds received from the Coronavirus Aid, Relief, and Economic Security (CARES) Act, plus any other pandemic-related supplemental appropriations. Two tables in the questionnaire were modified to collect the stimulus and non-stimulus amounts separately (tables 1 and 2), and seven tables in the questionnaire (tables 6.1, 6.2, 7.1, 11.1, 11.2, 12.1, and 13.1) were added for respondents to specify stimulus and non-stimulus funding by various categories. The data on stimulus funding is reported in volume 70's data table 132. BARDA accounted for 66% of all COVID-19 pandemic-related R&D in FY 2020; these obligations primarily include transfers to the other agencies to help facilitate execution of contractual awards under Operation Warp Speed.
- For volume 70 (FYs 2020–21), the optional narrative tables that ask for comparisons of the R&D obligations reported in Federal Funds for R&D with corresponding amounts in the Federal S&E Support Survey (standard questionnaire only) were renumbered from tables 6B and 6C to tables 6A and 6B.
- In volumes 68 (FYs 2018–19) and 69 (FYs 2019–20), table 6A, which collected information on federal intramural R&D obligations, was deactivated, and agencies were instructed not to complete it.
- For volumes 66 (FYs 2016–17) and 67 (FYs 2017–18), table 6A (formerly table VI.A) was included, but it was modified so that it no longer collected laboratory names.
- Starting with volume 66 (FYs 2016–17), the survey collects 2 federal government fiscal years—actual data for the fiscal year just completed and estimates for the current fiscal year. Previously, the survey also collected projected obligations for the next fiscal year based on the president's budget request to Congress. For volume 66, data were collected for only 2 fiscal years due to the delayed FY 2018 budget formulation process. However, after consultation with data users, NCSES determined that the projections were not as useful as the budget authority data presented in the budget request.
- In volume 66, the survey table numbering was changed from Roman numerals I–XI and, for selected agencies, the letters A–E, were changed to Arabic numerals 1–16. The order of tables remained the same.
- In the volume 66 DOD-version of the questionnaire, the definition of major systems development was changed to represent DOD Budget Activities 4 through 6 instead of Budget Activities 4 through 7, and questions relating to funding for Budget Activity 7, Operational Systems Development, were added to the instrument. The survey's narrative tables 6 and 11 were removed from the DOD-version of the questionnaire.
- For volume 65 (FYs 2015–17), the survey reintroduced table VI.A to collect information on federal intramural R&D obligations, including the names and addresses of all federal laboratories that received federal intramural R&D obligations. The table was included in both the standard and DOD questionnaires.
- For volume 62 (FYs 2012–14), the survey added table VI.A to the standard questionnaire for that volume only to collect information on FY 2012 federal intramural R&D obligations, including the names and addresses of all federal laboratories that received federal intramural R&D obligations.
- In volumes 59 (FYs 2009–11) and 60 (FYs 2010–12), questions relating to funding from the American Recovery and Reinvestment Act of 2009 (ARRA) were added to the data collection instruments. The survey collected separate outlays and obligations for ARRA and non-ARRA sources of funding, by performer and geography for FYs 2009 and 2010.

- Starting with volume 59 (FYs 2009–11), federal funding data were requested in actual dollars (instead of rounded in thousands, as was done through volume 58).

Changes in reporting procedures or classification.

- FY 2024. For the FY 2025 estimates on volume 74 (FYs 2024–25), the Department of State, the Agency for International Development, and the Agency for Global Media reported minimum amounts of spending on R&D programs due to the suspension of operations.
- FY 2024. During FY 2024, federal agencies managed a large number of staff turnover resulting in many new respondents during the volume 74 cycle (FYs 2024–25). Some minor effects on comparability to previous years may have occurred due to changes in interpretation of survey instructions by agency respondents.
- FY 2023. During the volume 73 cycle (FYs 2023–24), several agencies corrected prior year data. The Agency for International Development and the Department of Transportation (DOT) corrected undercounts in their FY 2021 and FY 2022 data, DHS’s Science and Technology Directorate corrected its FY 2022 data in respect to University Affiliated Research Centers, and NASA corrected its FY 2021 data.
- FY 2023. The DHS classification of R&D obligations to some FFRDCs may not map directly to the FFRDC performance sector presented in the Federal Funds for R&D data tables. DHS is in the process of revising the classification of FFRDC obligations, and data will be adjusted and presented as revisions in the volume 74 (FYs 2024–25) data collection cycle.
- FY 2023. Two agencies reassessed their R&D activities in ways that resulted in sizeable reductions in their R&D obligations. The first agency, the Department of the Interior (DOI), reinterpreted the definitions of activities that constitute R&D. For the DOI’s National Park Service, this resulted in a reduction of about 80% in its R&D obligations. Its Bureau of Ocean Energy Management (BOEM) determined that its science programs and activities do not adequately meet all criteria to be considered research but are instead “applied science”; therefore, BOEM had \$0 R&D spending to report. The second agency, the Centers for Medicare and Medicaid Services (CMS), had been developing and evolving a new budget system and determined that many activities labeled “Research and Demos” would no longer qualify as R&D. CMS pointed out that as an agency it is not as research focused as other HHS agencies; rather, it is focused on Medicare and Medicaid oversight and improving payment systems and methods to and from providers, states, and hospitals.
- FY 2023. The Department of State revised its reporting procedures to improve the accuracy of the agency’s obligations data for R&D associated with the Global Health Program. No revisions were applied to prior years’ obligations data from the Department of State.
- FY 2023. The HHS’s Advanced Research Projects Agency for Health (ARPA-H) began reporting for volume 73 (FYs 2023–24). Although ARPA-H is administratively managed by NIH, its R&D obligations are reported separately from NIH as a distinct component of HHS.
- FY 2023. The DOT’s Advanced Research Project Agency for Infrastructure is included in the report by the Office of the Secretary of Transportation, Office of the Assistant Secretary for Research and Technology.
- FY 2022. Two agency-level respondents ceased to report: the Department of the Treasury’s Internal Revenue Service (IRS) and the Federal Communications Commission.
- FY 2022. During the volume 72 cycle (FYs 2022–23), NASA revised its FY 2021 data by field of R&D and performer categories based on improved classification procedures developed during the volume 72 reporting period.
- FY 2022. The FY 2022 data could still include obligations from supplemental COVID-19 pandemic-related appropriations plus other pandemic-related supplemental appropriations.
- FY 2021. During the volume 71 cycle (FYs 2021–22), NCSSES decided to remove “U.S.” from names like “U.S. Space Force” to conform with other surveys. For Federal Funds for R&D, this change first appeared in the detailed statistical tables.

- FY 2020. For volume 70 (FYs 2020–21), data included obligations from supplemental COVID-19 pandemic-related appropriations (e.g., CARES Act) plus any other pandemic-related supplemental appropriations.
- FY 2020. DOE's Naval Reactor Program reclassified some of its R&D obligations from industry-administered FFRDCs to the industry sector.
- FY 2020. The Department of the Air Force (AF) and the DOE's Energy Efficiency and Renewable Energy (EERE) partially revised their FY 2019 data. AF revised its operational system development classified program numbers for businesses excluding business or industry-administered FFRDCs, and EERE revised its outlay numbers.
- FY 2019. For volume 69 (FYs 2019–20), FY 2020 preliminary data did not include obligations from supplemental COVID-19 pandemic-related appropriations (e.g., CARES Act).
- FY 2019. BARDA began reporting. For volume 69 (FYs 2019–20), it could not submit any geographical data, so its data were reported as undistributed on the state tables.
- FY 2019. The Agency for Global Media (formerly the Broadcasting Board of Governors), which did not report data between FY 2008 and FY 2018, resumed reporting.
- FY 2018. HHS's CMS funding was reported by the CMS Office of Financial Management at an agency-wide level instead of by the CMS Center for Medicare and Medicaid Innovation and its R&D group, the Office of Research, Development, and Information, which used to report at a component level.
- FY 2018. The Department of State added the Global Health Programs R&D funding.
- FY 2018. The Department of Veterans Affairs added funds for the Medical Services support to the existing R&D funding to fully report the total cost of intramural R&D. Although Medical Services do not directly fund specific R&D activities, they host intramural research programs that were not previously reported.
- FY 2018. DHS's Countering Weapons of Mass Destruction (CWMD) Office was established on 7 December 2017. CWMD consolidated primarily the Domestic Nuclear Detection Office (DNDO) and a majority of the Office of Health Affairs, as well as other DHS elements. Prior to FY 2018, data reported for the CWMD would have been under the DNDO.
- FY 2018. DOE revised its FYs 2016 and 2017 data after discovering its Office of Fossil Energy reported "in thousands" instead of actual dollars for volumes 66 (FYs 2016–17) and 67 (FYs 2017–18).
- FY 2018. USDA's Economic Research Service (ERS) partially revised its FYs 2009 and 2010 data during the volume 61 (FYs 2011–13) cycle. NCSSES discovered a discrepancy that was corrected during the volume 68 cycle, completing the revision.
- FY 2018. DHS's Transportation Security Administration, which did not report data between FY 2010 and FY 2017, resumed reporting for volume 68 (FYs 2018–19).
- FY 2018. DHS's Secret Service, which did not report data between FY 2009 and FY 2017, resumed reporting for volume 68 (FYs 2018–19).
- FY 2018. NCSSES discovered that in some past volumes, the obligations reported for basic research in certain foreign countries were greater than the corresponding obligations reported for R&D; the following data were corrected as a result: DOD and Chemical and Biological Defense FY 2003 data; defense agencies and activities FY 2003 and FY 2011 data; AF FY 2009 data; and Department of the Navy FY 2005, FY 2011, and FY 2013 data; DOE and Office of Science FY 2009 data; HHS and Centers for Disease Control and Prevention (CDC) FY 2008 and FY 2017 data; and NSF FY 2001 data. NCSSES also discovered that some obligations reported for academic performers were greater than the corresponding obligations reported for total performers, and DOD and AF FY 2009 data, DOE and Fossil Energy FY 1999 data, and NASA FY 2008 data were corrected. Finally, NCSSES discovered a problem with FY 2017 HHS's CDC personnel costs data, which were then also corrected.

- FY 2017. The Department of the Treasury's IRS performed a detailed evaluation and assessment of its programs and determined that none of its functions could be defined as R&D activity as defined in Office of Management and Budget (OMB) Circular A-11. The review included discussions with program owners and relevant contractors who perform work on behalf of the IRS. The IRS also provided a negative response to the OMB data call on R&D under Circular A-11 for the same reference period (FYs 2017–18). Despite no longer having any R&D obligations, the IRS still sponsors an FFRDC, the Center for Enterprise Modernization.
- FY 2017. NASA estimated that the revised OMB definition for "experimental development" reduced its reported R&D total by about \$2.7 billion in FY 2017 and \$2.9 billion in FY 2018 from what would have been reported under the previous definition prior to volume 66 (FYs 2016–17).
- FY 2017. The Patient-Centered Outcomes Research Trust Fund (PCORTF) was established by Congress through the Patient Protection and Affordable Care Act of 2010, signed by the president on 23 March 2010. PCORTF began reporting for volume 67 (FYs 2017–18), but it also submitted data for FYs 2011–16.
- FY 2017. The Tennessee Valley Authority, which did not report data between FY 1999 and FY 2016, resumed reporting for volume 67 (FYs 2017–18).
- FY 2017. The Postal Service, which did not report data between FY 1999 and FY 2016, resumed reporting for volume 67 (FYs 2017–18) and submitted data for FYs 2015–16.
- FY 2017. During the volume 67 (FYs 2017–18) data collection, DHS's Science and Technology Directorate revised its FY 2016 data.
- FY 2016. The Administrative Office of the U.S. Courts began reporting as of volume 66 (FYs 2016–17).
- Beginning with FY 2016, the totals reported for development obligations and outlays represent a refinement to this category by more narrowly defining it to be "experimental development." Most notably, totals for development no longer include the DOD Budget Activity 7 (Operational System Development) obligations and outlays. Those funds, previously included in DOD's development totals, support the development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year. Therefore, the data are not directly comparable with totals reported in previous years. For more information, refer to *Statistical Definition of Development Clarified: Effect on Reported Federal R&D Totals* (InfoBrief NSF 21-326), April 2021, available at <https://ncses.nsf.gov/pubs/nsf21326>.
- Prior to the launch of volume 66 (FYs 2016–17), the definitions of basic research, applied research, experimental development, R&D, and R&D plant were revised to match the definitions used by OMB in the July 2016 version of Circular A-11, Section 84 (Schedule C).
- FY 2015. HHS's Administration for Community Living (ACL) began reporting in FY 2015, replacing the Administration on Aging, which was transferred to ACL when ACL was established on 18 April 2012. Several programs that serve older adults and people with disabilities were transferred from other agencies to ACL, including a number of programs from the Department of Education due to the 2014 Workforce Innovation and Opportunities Act.
- FY 2015. The DOI's Bureau of Land Management and Fish and Wildlife Service, which did not report data between FY 1999 and FY 2014, resumed reporting.
- In January 2014, all Research and Innovative Technology Administration programs were transferred into the Office of the Assistant Secretary for Research and Technology in the Office of the Secretary of Transportation.
- FY 2014. DHS's Domestic Nuclear Detection Office began reporting for FY 2014.
- FY 2014. The Department of State data for FY 2014 were excluded due to their poor quality.

- FY 2013. NASA revamped its reporting process so that the data for FY 2012 forward are not directly comparable with totals reported in previous years.
- FY 2012. NASA began reporting International Space Station (ISS) obligations as research rather than R&D plant.
- Starting with volume 62 (FYs 2012–14), an “undistributed” category was added to the geographic location tables for DOD obligations for which the location of performance is not reported. It includes DOD obligations for industry R&D that were included in individual state totals prior to FY 2012 and DOD obligations for other performers that were not reported prior to FY 2011. This change was applied retroactively to FY 2011 data.
- Starting with volume 61 (FYs 2011–13), DOD subagencies other than the Defense Advanced Research Projects Agency were reported as an aggregate total under Other defense agencies to enable complete reporting of DOD R&D (both unclassified and classified). Consequently, DOD began reporting additional classified R&D not previously reported by its subagencies.
- FY 2011. USDA’s ERS partially revised its data for FYs 2009 and 2010 during the volume 61 (FYs 2011–13) cycle.
- FY 2010. NASA resumed reporting ISS obligations as R&D plant.
- FYs 2000–09. Beginning in FY 2000, AF did not report Budget Activity 6.7 Operational Systems Development data because the agency misunderstood the reporting requirements. During the volume 57 data collection cycle, AF edited prior year data for FYs 2000–07 to include Budget Activity 6.7 Operational Systems Development data. These data revisions were derived from FY 2007 distribution percentages that were then applied backward to revise data for FYs 2000–06.
- FYs 2006–07. NASA’s R&D obligations decreased by \$1 billion. Of this amount, \$850 million was accounted for by obligations for operational projects that NASA excluded in FY 2007 but reported in FY 2006. The remainder was from an overall decrease in obligations between FYs 2006 and 2007.
- FY 2006. NASA reclassified funding for the following items as operational costs: Space Operations, the Hubble Space Telescope, the Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope. This funding was previously reported as R&D plant.
- FYs 2005–07. Before the volume 55 survey cycle, NSF updated the list of foreign performers in Federal Funds for R&D to match the list of countries and territories in the Department of State’s Bureau of Intelligence and Research fact sheet of Independent States in the World and fact sheet of Dependencies and Areas of Special Sovereignty. Area and country lists in volume 55 data tables and later may differ from those in previous reports.
- FYs 2004–06. NASA implemented a full-cost budget approach, which includes all of the direct and indirect costs for procurement, personnel, travel, and other infrastructure-related expenses related to a particular program and project. NASA’s data for FY 2004 and later years may not be directly comparable with its data for FY 2003 and earlier years.
- FY 2004. NIH revised its financial database; beginning with FY 2004, NIH records no longer contain information on the field of S&E. Data for FY 2004 and later years are not directly comparable with data for FY 2003 and earlier years.
- Data for FYs 2003–06 from the Substance Abuse and Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA’s obligations by program activity budget and previously reported funding for development.
- FY 2003. SAMHSA reclassified some of its funding categories as non-R&D that had been considered to be R&D in prior years.
- On 25 November 2002, the president signed the Homeland Security Act of 2002, establishing DHS. DHS includes the R&D activities previously reported by the Federal Emergency Management Agency, the Science and Technology Directorate, the Transportation Security Administration, the Coast Guard, and the Secret Service.

- FY 2000. NASA reclassified the ISS as a physical asset, reclassified ISS research as equipment, and transferred funding for the program from R&D to R&D plant.
- FY 2000. NIH reclassified as research the activities that it had previously classified as development. NIH data for FY 2000 forward reflect this change. For more information on the classification changes at NASA and NIH, refer to *Classification Revisions Reduce Reported Federal Development Obligations* (InfoBrief NSF 02-309), February 2002, available at <https://www.nsf.gov/statistics/nsf02309>.
- FYs 1996–98. The lines on the survey instrument for the special foreign currency program and for detailed field of S&E were eliminated beginning with the volume 46 survey cycle. Two tables depicting data on foreign performers by region, country, and agency that were removed before publication of volume 43 were reinstated with volume 46.
- FYs 1994–96. During the volume 44 survey cycle, the Director for Defense Research and Engineering (DDR&E) at DOD requested that NSF further clarify the true character of DOD’s R&D program, particularly as it compares with other federal agencies, by adding more detail to development obligations reported by DOD respondents. Specifically, DOD requested that NSF allow DOD agencies to report development obligations in two separate categories: advanced technology development and major systems development.

An excerpt from a letter written by Robert V. Tuohy, Chief, Program Analysis and Integration at DDR&E, to John E. Jankowski, Program Director, Research and Development Statistics Program, Division of Science Resources Statistics, NSF, explains the reasoning behind the DDR&E request:

“The DOD’s R&D program is divided into two major pieces, Science and Technology (S&T) and Major Systems Development. The other federal agencies’ entire R&D programs are equivalent in nature to DOD’s S&T program, with the exception of the DOE and possibly NASA. Comparing those other agency programs to DOD’s program, including the development of weapons systems such as F-22 Fighter and the New Attack Submarine, is misleading.”

- FYs 1990–92. Since volume 40, DOD has reported research obligations and development obligations separately. Tables reporting obligations for research, by state and performer, and obligations for development, by state and performer, were specifically created for DOD. Circumstances specific to DOD are (1) DOD funds the preponderance of federal development and (2) DOD development funded at institutions of higher education is typically performed at university-affiliated nonacademic laboratories, which are separate from universities’ academic departments, where university research is typically performed.

Definitions

Agency and subdivision. An agency is an organization of the federal government whose principal executive officer reports to the president. The Library of Congress did not respond this cycle; however, it is typically included in this survey, even though the chief officer of the Library of Congress reports to Congress. Subdivision refers to any organizational unit of a reporting agency, such as a bureau, division, office, or service.

Development. See R&D and R&D plant.

Federal obligations for research performed at higher education institutions, by detailed field of R&D. As of volume 71, all respondents were required to report these obligations. Previously, this information was reported by seven agencies (USDA, DOD, DOE, HHS, DHS, NASA, and NSF).

Fields of R&D. A list of the 41 fields of R&D reported on can be found on the survey questionnaire. In the data tables, the fields are grouped into 9 major areas: computer and information sciences; geosciences, atmospheric sciences, and ocean sciences; life sciences; mathematics and statistics; physical sciences; psychology; social sciences; engineering; and other fields. [Table A-3](#) provides a crosswalk of the fields of science and engineering used in volume 70 and earlier surveys to the revised fields of R&D collected under volume 71.

Geographic distribution of R&D obligations. As of volume 71, all respondents were required to respond to this portion of the survey. Previously, the 11 largest R&D funding agencies responded to this portion (USDA, DOC, DOD, DOE, HHS, DHS, DOI, DOT, the Environmental Protection Agency, NASA, and NSF). Respondents are asked to provide the principal location (state or outlying area) of the work performed by the primary contractor, grantee, or intramural organization, assign the obligations to the location of the headquarters of the U.S. primary contractor, grantee, or intramural organization, or list the funds as undistributed.

Obligations and outlays. Obligations represent the amounts for orders placed, contracts awarded, services received, and similar transactions during a given period, regardless of when funds were appropriated and when future payment of money is required. Outlays represent the amounts for checks issued and cash payments made during a given period, regardless of when funds were appropriated.

Performer. A group or organization carrying out an operational function or an extramural organization or a person receiving support or providing services under a contract or grant.

- *Intramural performers* are agencies of the federal government, including federal employees who work on R&D both onsite and offsite and, as of volume 71, FFRDCs.
 - *Federal.* The work of agencies of the federal government is carried out directly by agency personnel. Obligations reported under this category are for activities performed or to be performed by the reporting agency itself or are for funds that the agency transfers to another federal agency for performance of R&D (intragovernmental transfers). Although the receiving agency may obligate these funds to extramural performers (businesses, universities and colleges, other nonprofit institutions, FFRDCs, nonfederal government, and foreign) they are reported as part of the federal sector by the originating agency.

Federal activities cover not only actual intramural R&D performance but also the costs associated with administration of intramural R&D programs and extramural R&D procurements by federal personnel. Intramural activities also include the costs of supplies and off-the-shelf equipment (equipment that has gone beyond the development or prototype stage) procured for use in intramural R&D. For example, an operational launch vehicle purchased from an extramural source by NASA and used for intramural performance of R&D is reported as a part of the cost of intramural R&D. These intramural R&D obligations should not be confused with R&D outlays, or performance of R&D, by federal agencies as is measured by the NCSSES [Federal Facilities Research and Development Survey](#).

- *Federally funded research and development centers (FFRDCs)*—R&D-performing organizations that are exclusively or substantially financed by the federal government and are supported by the federal government either to meet a particular R&D objective or in some instances to provide major facilities at universities for research and associated training purposes. Each center is administered by an industrial firm, a university, or another nonprofit institution (see <https://ncses.nsf.gov/resource/master-gov-lists-ffrdc> for the Master Government List of FFRDCs maintained by NSF).
- *Extramural performers* are organizations outside the federal sector that perform R&D with federal funds under contract, grant, or cooperative agreement. Only costs associated with actual R&D performance are reported. Types of extramural performers:
 - *Businesses*—Organizations that may legally distribute net earnings to individuals or to other organizations.
 - *Higher education institutions*—Domestic higher education institutions, military service academies, and consortia. Higher education institutions in the United States that engage primarily in providing resident or accredited instruction for a not less than a 2-year program above the secondary school level that is acceptable for full credit toward a bachelor's degree or that provide not less than a 1-year program of training above the secondary school level that prepares students for gainful employment in a recognized occupation. Included are colleges of liberal arts; schools of

arts and sciences; professional schools, as in engineering and medicine, including hospitals, clinics, and research institutes that are financial constituents of universities; and agricultural experiment stations. Other examples of universities and colleges include community colleges, 4-year colleges, universities, and freestanding professional schools (medical schools, law schools, etc.).

Consortia are organizations formed by the membership of multiple institutions from one or more types of performers (i.e., higher education or nonprofit) in order to promote and support efforts to enhance knowledge in one or more disciplines. Consortia that include both higher education institutions and nonprofits have been assigned to one of the two categories by NSF.

- *Other nonprofit institutions*—Domestic nonprofit organizations other than universities and colleges. Nonprofit organizations are businesses granted tax-exempt status by the IRS. Nonprofits pay no income tax on the donations they receive or on any money that they earn through fundraising activities. Nonprofit organizations are sometimes called nonprofit organizations or [501c organizations](#), based on the section of the tax code that permits them to operate. This category includes nonprofit hospitals that are not financial constituents of universities and consortia.
- *State and local governments*—State and local government agencies, excluding state or local universities and colleges, agricultural experiment stations, medical schools, and affiliated hospitals. (Federal R&D funds obligated directly to such state and local institutions are excluded in this category. However, they are included under the universities and colleges category in this report.) R&D activities under the state and local governments category are performed either by the state or local agencies themselves or by other organizations under grants or contracts from such agencies. Regardless of the ultimate performer, federal R&D funds directed to state and local governments are reported only under this sector.
- *Non-U.S. performers*—Other nations' citizens, organizations, universities and colleges, governments, as well as international organizations located outside the United States, that perform R&D. In most cases, foreigners performing R&D in the United States are not reported here. Excluded from this category are U.S. agencies, U.S. organizations, or U.S. citizens performing R&D abroad for the federal government. Examples of foreign performers include the North Atlantic Treaty Organization, the United Nations Educational, Scientific, and Cultural Organization, and the World Health Organization. An exception in the past was made in the case of U.S. citizens performing R&D abroad under special foreign-currency funds; these activities were included under the foreign performers category but have not been collected since the mid-1990s.
- *Private individuals*—When an R&D grant or contract is awarded directly to a private individual, obligations incurred are placed under the category businesses.

R&D and R&D plant. Amounts for R&D and R&D plant include all direct, incidental, or related costs resulting from, or necessary to, performance of R&D and costs of R&D plant as defined below, regardless of whether R&D is performed by a federal agency (intramurally) or by private individuals and organizations under grant or contract (extramurally). R&D excludes routine product testing, quality control, mapping and surveys, collection of general-purpose statistics, experimental production, and the training of scientific personnel.

- *Research* is defined as systematic study directed toward fuller scientific knowledge or understanding of the subject studied. Research is classified as either basic or applied, according to the objectives of the sponsoring agency.
- *Basic research* is defined as experimental or theoretical work undertaken primarily to acquire new knowledge of the underlying foundations of phenomena and observable facts. Basic research may include activities with broad or general applications in mind, such as the study of how plant genomes change, but should exclude research directed toward a specific application or requirement, such as the optimization of the genome of a specific crop species.
- *Applied research* is defined as original investigation undertaken in order to acquire new knowledge. Applied research is, however, directed primarily toward a specific practical aim or objective.

- *Development*, also known as experimental development, is defined as creative and systematic work, drawing on knowledge gained from research and practical experience, which is directed at producing new products or processes or improving existing products or processes. Like research, experimental development will result in gaining additional knowledge.

For reporting experimental development activities, the following are included:

The production of materials, devices, and systems or methods, including the design, construction, and testing of experimental prototypes.

Technology demonstrations, in cases where a system or component is being demonstrated at scale for the first time, and it is realistic to expect additional refinements to the design (feedback R&D) following the demonstration. However, not all activities that are identified as “technology demonstrations” are R&D.

However, experimental development excludes the following:

User demonstrations where the cost and benefits of a system are being validated for a specific use case. This includes low-rate initial production activities.

Pre-production development, which is defined as non-experimental work on a product or system before it goes into full production, including activities such as tooling and development of production facilities.

To better differentiate between the part of the federal R&D budget that supports science and key enabling technologies (including technologies for military and nondefense applications) and the part that primarily supports testing and evaluation (mostly of defense-related systems), NSF collects development dollars from DOD in two categories: advanced technology development and major systems development.

DOD uses RDT&E Budget Activities 1–8 to classify data into the survey categories. Within DOD’s research categories, basic research is classified as Budget Activity 1, and applied research is classified as Budget Activity 2. Within DOD’s development categories, advanced technology development is classified as Budget Activity 3. Starting in volume 66, major systems development is classified as Budget Activities 4–6 instead of Budget Activities 4–7 and includes advanced component development and prototypes, system development and demonstration, and RDT&E management support. Budget Activities 1–6 count as R&D. Data on Budget Activity 7, Operational System Development, and as of volume 73, Budget Activity 8, Software and Digital Technology Pilot Programs, are collected separately and ensure full coverage of DOD RDT&E. (Note: As a historical artifact from previous DOD budget authority terminology, funds for Budget Activity categories 1 through 7 are sometimes referred to as 6.1 through 6.7 monies.)

- *Demonstration* includes amounts for activities that are part of R&D (i.e., that are intended to prove or to test whether a technology or method does in fact work). Demonstrations intended primarily to make information available about new technologies or methods are excluded.
- *R&D plant* is defined as spending on both R&D facilities and major equipment as defined in OMB Circular A-11 Section 84 (Schedule C) and includes physical assets—such as land, structures, equipment, and intellectual property (e.g., software or applications) that have an estimated useful life of 2 years or more—or commodity inventories.

Reporting for R&D plant includes the purchase, construction, manufacture, rehabilitation, or major improvement of physical assets regardless of whether the assets are owned or operated by the federal government, states, municipalities, or private individuals. The cost of the asset includes both its purchase price and all other costs incurred to bring it to a form and location for its intended use.

Obligations for foreign R&D plant are limited to federal funds for facilities that are located abroad and used in support of foreign R&D.

For reporting construction of R&D facilities and major moveable R&D equipment, include the following:

Funding for the construction of facilities that are necessary for the execution of an R&D program. This may include land, major fixed equipment, and supporting infrastructure such as a sewer line, or housing at a remote location. Many laboratory buildings will include a mixture of R&D facilities and office space. The fraction of the building directly related to the conduct of R&D may be calculated based on the percentage of the building's total square footage.

Acquisition, design, or production of major movable equipment, such as mass spectrometers, research vessels, DNA sequencers, and other major movable instruments for use in R&D activities.

Programs of \$1 million or more that are devoted to the purchase or construction of R&D major equipment.

Agency R&D plant costs for non-U.S. performers.

Exclude the following:

Construction of other facilities, such as office space.

Minor equipment purchases, such as personal computers, standard microscopes, and simple spectrometers (if part of an R&D activity, report these costs under R&D conduct, not R&D Plant).

Technical Tables

Table	Title
A-1	Agencies included in the Survey of Federal Funds for Research and Development data tables: Volumes 29–74
A-2	Notes associated with agencies included in the Survey of Federal Funds for Research and Development: Volumes 29–74
A-3	Crosswalk for the Survey of Federal Funds for Research and Development: Volumes 70 and 71
A-4	Survey of Federal Funds for Research and Development, by volume number and federal fiscal years surveyed

Table A-1. Agencies included in the Survey of Federal Funds for Research and Development data tables: Volumes 29–74

(Agency key)

Agency	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74					
Health Resources Administration	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
Health Resources and Services Administration	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Health Services Administration	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Human Development Services	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
National Institutes of Health	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Office of the Assistant Secretary for Health	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Office of the Secretary of Health and Human Services	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
Office of the Assistant Secretary for Planning and Evaluation	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Office of the Assistant Secretary for Health (formerly Office of Public Health and Science)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X	O	O	O	O	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
Social Security Administration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Substance Abuse and Mental Health Services Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
Department of Homeland Security	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	T	Z	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	X	X	X	X		
Coast Guard	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Countering Weapons of Mass Destruction Office	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	T	T	T	T	T	T	T	T	T	T	T	X	X	X	X	X	X	X	X	X		
Cybersecurity and Infrastructure Security Agency	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X		
Science and Technology Directorate	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Z	Z	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Secret Service	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X	X	X	X	X	T	T	T	T	T	T	T	T	T	T	T	T	X	X	X	X	X	X	X	
Transportation Security Administration	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Z	X	X	X	X	O	O	T	T	T	T	T	T	T	T	T	T	X	X	X	X	X	X	X	X		
Department of Housing and Urban Development	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O	O		

Table A-1. Agencies included in the Survey of Federal Funds for Research and Development data tables: Volumes 29–74

(Agency key)

Agency	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74
Tennessee Valley Authority	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O	O	O	O	O	O	O	O	O	T	T	T	T	T	T	T	T	X	X	X	X	X	X	X	X

N = the agency did not exist as such; therefore, no data are available. O = the agency existed but had no R&D to report. T = the agency existed, but data were not collected at this level. X = the agency existed, and data were collected and submitted by the agency. Z = the agency existed but was unable to report.

DT&E = developmental test and evaluation. RDT&E = research, development, test, and evaluation.

Note(s):

This table summarizes which agencies have reported to the Survey of Federal Funds for Research and Development (Federal Funds for R&D) and have been included in Federal Funds for R&D reports for volume 29 (FYs 1979–81) through volume 74 (FYs 2024–25). For volume 74, actual data were collected for FY 2024, and estimates were collected for FY 2025.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table A-2. Notes associated with agencies included in the Survey of Federal Funds for Research and Development: Volumes 29–74

(Notes)

Department	Explanatory information
Department of Agriculture	
Agricultural Marketing Service	<p>Although the Agricultural Marketing Service (AMS) was established in April 1972, FY 1979 was the first year in which Congress appropriated funds to this agency.</p> <p>Data reported for AMS include funds for the Office of Transportation beginning in 1989.</p> <p>The Grain Inspection, Packers, and Stockyards Administration (GIPSA) was re-organized and absorbed in AMS in September 2017. Because GIPSA R&D projects were closed out, the transfer did not have much effect on the FY 2018 funding reported by AMS.</p>
Agricultural Research Service	The Human Nutrition Information Service merged with the Agricultural Research Service on 20 February 1994.
Agricultural Stabilization and Conservation Service	The Agricultural Stabilization and Conservation Service was abolished as of 20 October 1994.
Cooperative State Research, Education, and Extension Service	<p>The Cooperative State Research Service merged with the Extension Service on 19 October 1994 to become the Cooperative State Research, Education, and Extension Service (CSREES) due to reorganization of the Department of Agriculture.</p> <p>CSREES changed its name to the National Institute of Food and Agriculture in FY 2008.</p>
Economic Research Service	<p>Data reported for the Economics, Statistics, and Cooperative Service include programs of the Economic Research Service (ERS), the Statistical Reporting Service (SRS), and the Farmer Cooperative Service for FYs 1977–79.</p> <p>Data reported for the Economics and Statistics Service include programs of ERS and SRS for FY 1980.</p>
Economics and Statistics Service	Data reported for the Economics and Statistics Service include programs of the Economic Research Service and the Statistical Reporting Service for FY 1980.
Economics, Statistics, and Cooperative Service	Data reported for the Economics, Statistics, and Cooperative Service include programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for FYs 1977–79.
Federal Grain Inspection Service	The Federal Grain Inspection Service was abolished on 20 October 1994, and the Grain Inspection, Packers, and Stockyards Administration assumed its functions.
Foreign Agricultural Service	<p>The Office of International Cooperation and Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation and Development programs within FAS as of FY 1994.</p> <p>FAS ceased to be a respondent as of volume 73 (FYs 2023–24) because it no longer had reportable R&D activities.</p>
Grain Inspection, Packers, and Stockyards Administration	<p>The Federal Grain Inspection Service was abolished on 20 October 1994, and the Grain Inspection, Packers, and Stockyards Administration (GIPSA) assumed its functions.</p> <p>GIPSA was reorganized and absorbed in the Agricultural Marketing Service in September 2017; GIPSA funding for FY 2017 declined because GIPSA R&D projects were closed out. GIPSA was eliminated as a standalone agency as of 14 November 2017, so no funding was reported for FY 2018.</p>
Human Nutrition Information Service	The Human Nutrition Information Service merged with the Agricultural Research Service on 20 February 1994.
National Institute of Food and Agriculture	The National Institute of Food and Agriculture was created through the Food, Conservation, and Energy Act of 2008 and replaced the former Cooperative State Research, Education, and Extension Service.
Natural Resources Conservation Service	The Soil Conservation Service became part of the Department of Agriculture in 1990; it was renamed the Natural Resources Conservation Service (NRCS) in 1994. NRCS started reporting for volume 71 (FYs 2021–22) because the Survey of Federal Science and Engineering Support to Universities, Colleges, and Nonprofit Institutions (Federal S&E Support Survey) was integrated as a module in volume 71 of the Survey of Federal Funds for R&D. NRCS continued to have no R&D data to report but did have S&E obligations to report in the module of the Federal S&E Support Survey module.
Office of International Cooperation and Development	The Office of International Cooperation and Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation and Development programs within FAS as of FY 1994.

Table A-2. Notes associated with agencies included in the Survey of Federal Funds for Research and Development: Volumes 29–74

(Notes)

Department	Explanatory information
Office of Transportation	Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.
Rural Business-Cooperative Service	This agency's name changed from the Rural Business and Cooperative Development Service to the Rural Business-Cooperative Service on 30 January 1996.
	The Rural Business-Cooperative Service ceased to be a respondent as of volume 73 (FYs 2023–24) because it no longer had reportable R&D activities.
Department of Commerce	
Maritime Administration	In 1981, the Maritime Administration moved from the Department of Commerce to the Department of Transportation.
	The Maritime Administration resumed reporting for volume 71 (FYs 2021–22). It had last reported for volume 30 (FYs 1980–82).
National Fire Prevention and Control Administration	Functions for the National Fire Prevention and Control Administration transferred from the Department of Commerce to the Federal Emergency Management Agency as of 1 April 1979.
Department of Defense	Since volume 40, the Department of Defense (DOD) has reported research obligations and development obligations separately. Tables reporting obligations for research, by state and performer, and obligations for development, by state and performer, were specifically created for DOD. Circumstances specific to DOD are (1) DOD funds the preponderance of federal development and (2) DOD development funded at institutions of higher education is typically performed at university-affiliated nonacademic laboratories, which are separate from universities' academic departments, where university research is typically performed.
	During the volume 44 survey cycle, the Director for Defense Research and Engineering (DDR&E) at DOD requested that the National Science Foundation (NSF) further clarify the true character of DOD's R&D program, particularly as it compares with other federal agencies, by adding more detail to development obligations reported by DOD respondents. Specifically, DOD requested that NSF allow DOD agencies to report development obligations in two separate categories: advanced technology development and major systems development. An excerpt from a letter written by Robert V. Tuohy, Chief, Program Analysis and Integration at DDR&E, to John E. Jankowski, Program Director, Research and Development Statistics Program, Division of Science Resources Statistics, NSF, explains the reasoning behind the DDR&E request: "The DOD's R&D program is divided into two major pieces, Science and Technology (S&T) and Major Systems Development. The other federal agencies' entire R&D programs are equivalent in nature to DOD's S&T program, with the exception of the Department of Energy and possibly the National Aeronautics and Space Administration. Comparing those other agency programs to DOD's program, including the development of weapons systems such as F-22 Fighter and the New Attack Submarine, is misleading."
	Not all DOD agencies with development obligations are able to categorize them according to the advanced technology and major systems development breakdown. Therefore, in the volume 46 (FYs 1996–98) survey cycle, total DOD development does not equal the sum of total DOD advanced technology development and total DOD major systems development.
	Beginning with volume 54 (FYs 2004–06), DOD now requires its reporting agencies to adhere to DOD control numbers when providing data to the Survey of Federal Funds for Research and Development.
	Starting with volume 61 (FYs 2011–13), DOD subagencies other than the Defense Advanced Research Projects Agency were reported as an aggregate total under other defense agencies to enable complete reporting of DOD R&D (both unclassified and classified). Consequently, DOD began reporting additional classified R&D not previously reported by its subagencies.
	Starting with volume 62 (FYs 2012–14), an undistributed category was added to the geographic location tables for DOD obligations for which the location of performance is not reported. It includes DOD obligations for industry R&D that were included in individual state totals prior to FY 2012 and DOD obligations for other performers that were not reported prior to FY 2011. This change was applied retroactively to FY 2011 data.
	Beginning with FY 2016, the totals reported for development outlays represent a refinement to this category by more narrowly defining it to be "experimental development." Most notably, totals for development do not include the DOD Budget Activity 7 (Operational System Development) outlays. Those funds, previously included in DOD's development outlay totals, support the development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year. Therefore, the data are not directly comparable with totals reported in previous years.
	As of volume 66 (FYs 2016–17), the definition of major systems development was changed to represent DOD Budget Activities 4 through 6 instead of Budget Activities 4 through 7.
	Funding for DOD's Operational System Development (Budget Activity 7) was first reported as a separate category for volume 66 (FYs 2016–17).
	Funding for DOD's Software and Digital Technology Pilot Programs (Budget Activity 8) was first reported in volume 73 (FYs 2023–24).
Defense agencies	
Chemical and Biological Defense	Before FY 2000, R&D of Chemical and Biological Defense was reported with the Washington Headquarters Services.
	Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.

Table A-2. Notes associated with agencies included in the Survey of Federal Funds for Research and Development: Volumes 29–74

(Notes)

Department	Explanatory information
Defense Advanced Research Projects Agency	This agency's name changed to the Advanced Research Projects Agency on 13 July 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.
Defense Business Transformation Agency	The Defense Business Transformation Agency was established on 7 October 2005. Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
Defense Contract Management Agency	Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
Defense Health Agency	Beginning with volume 70 (FYs 2020–21), Defense Health Agency began reporting as a separate agency under the Department of Defense.
Defense Information Systems Agency	Data reported for the Defense Information Systems Agency included data for the Defense Technical Information Center (DTIC) until FY 2006, when DTIC became a separate field activity. Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
Defense Logistics Agency	Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
Defense Security Cooperation Agency	Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
Defense Special Weapons Agency	The Defense Nuclear Agency was renamed the Defense Special Weapons Agency (DSWA) in 1996 as a result of a new charter and an expanded mission. The Defense Threat Reduction Agency (DTRA) was established on 1 October 1998. DTRA was formed through a merger of elements of the Office of the Secretary of Defense staff, the Defense Technology Security Administration, DSWA, and the On-Site Inspection Agency.
Defense Technical Information Center	In FY 2006, the Defense Technical Information Center became a separate field activity; in prior years, these data were reported as part of the Defense Information Systems Agency. Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
Defense Threat Reduction Agency	The Defense Threat Reduction Agency (DTRA) was established on 1 October 1998. DTRA was formed through a merger of elements of the Office of the Secretary of Defense staff, the Defense Technology Security Administration, the Defense Special Weapons Agency, and the On-Site Inspection Agency. Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
Joint Staff	The name of this agency changed from Joint Chiefs of Staff to Joint Staff in FY 1986. Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
Missile Defense Agency	Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
National Imagery and Mapping Agency	The Defense Mapping Agency merged with the newly created National Imagery and Mapping Agency on 1 October 1996.
Office of the Secretary of Defense	In FY 2006, the Washington Headquarters Service was renamed the Office of the Secretary of Defense (OSD). Beginning with volume 61 (FYs 2011–13), excepting the Defense Advanced Research Projects Agency, OSD began reporting for the agencies that had been presented under Department of Defense agencies and activities and Operational Test and Evaluation, Director. These are now reported under other defense agencies.
Other defense agencies	Beginning in FY 2011, other defense agencies displays aggregated data of Department of Defense subagencies engaged in classified R&D projects.
Special Operations Command	Beginning with volume 61 (FYs 2011–13), agency totals are included in the category other defense agencies.
Uniformed Services University of the Health Sciences	Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of volume 45 (FYs 1995–97).
Washington Headquarters Services	Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' (WHS's) submission as of volume 45 (FYs 1995–97).

Table A-2. Notes associated with agencies included in the Survey of Federal Funds for Research and Development: Volumes 29–74

(Notes)

Department	Explanatory information
	<p>Public Law No. 103-160, Section 1703, made the Office of the Secretary of Defense (OSD) responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 required the creation of CBDP research, development, test, and evaluation program elements be established in the President's Budget for FYs 1996–97. Data for these new program elements are included in the Survey of Federal Funds for Research and Development as of volume 46 (FYs 1996–98). Since FY 2000, R&D of Chemical and Biological Defense has been reported separately from the WHS.</p> <p>WHS's basic research data were revised in volume 47 (FYs 1997–99) to reflect changes that were not incorporated in volume 46 (FYs 1996–98).</p> <p>In FY 2006, WHS was renamed OSD.</p>
Defense Civil Preparedness Agency	Functions for the Defense Civil Preparedness Agency transferred from the Department of Defense to the Federal Emergency Management Agency on 20 July 1979.
Department of the Air Force	<p>Beginning in FY 2000, the Air Force did not report Budget Activity 6.7 Operational System Development data because the agency misunderstood the reporting requirements. During the volume 57 data collection cycle, the Air Force edited prior-year data for FYs 2000–07 to include Budget Activity 6.7 Operational System Development data. These data revisions were derived from FY 2007 distribution percentages that were then applied backward to revise data for FYs 2000–06.</p> <p>Beginning in FY 2011, the Air Force stopped reporting classified R&D projects by location and started reporting them as undistributed.</p> <p>Space Command stopped reporting as part of the Air Force after volume 69 (FYs 2019–20); it was replaced by the Space Force, which is now an independent service within the Department of Defense.</p>
Department of the Army	
Civil Functions	The Department of the Army (DA), Civil Functions (Corps of Engineers), development activities are appropriated by the Energy and Water Development and Related Agencies Appropriations Act and therefore cannot be categorized according to the advanced technology and major systems development breakdown. For accounting purposes, the funds are shown in the advanced technology total for DA.
Operational Test and Evaluation, Director	On 7 June 1999, the Secretary of Defense approved the disestablishment of the Office of the Director, Test, Systems Engineering and Evaluation. As a result of the restructure, the Director, Operational Test and Evaluation, assumed management responsibility for the Central Test and Evaluation Investment Program and the Test and Evaluation Program, excluding the Joint Test and Evaluation Program.
Other defense agencies	Beginning with volume 61 (FYs 2011–13), other defense agencies displays aggregated data of Department of Defense (DOD) subagencies engaged in classified R&D projects. DOD does not report the location of performance for these projects; rather they report these obligations as undistributed.
Space Force	Founded 20 December 2019 as an independent service, the Space Force began reporting for volume 70 (FYs 2020–21).
Test and Evaluation, Deputy under Secretary of Defense	<p>On 7 June 1999, the Secretary of Defense approved the disestablishment of the Office of the Director, Test, Systems Engineering and Evaluation. As a result of the restructure, the Director, Operational Test and Evaluation, assumed management responsibility for the Central Test and Evaluation Investment Program and the Test and Evaluation Program, excluding the Joint Test and Evaluation Program.</p> <p>Beginning with volume 61 (FYs 2011–13), agency totals are included in other defense agencies.</p>
Department of Education	Several programs that serve older adults and people with disabilities were transferred from other agencies to the Department of Health and Human Services' Administration for Community Living, including a number of programs from the Department of Education due to the 2014 Workforce Innovation and Opportunities Act.
Department of Energy	In January 1996, the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.
Advanced Research Projects Agency–Energy	In FY 2007, the president signed the America Creating Opportunities to Meaningfully Promote Excellence in Technology, Education, and Science Act (America COMPETES), which authorized the creation of the Advanced Research Projects Agency–Energy. In FY 2009, Congress appropriated \$400 million to fund the agency's first projects.
Energy Delivery and Energy Reliability	<p>In FY 1982, the Bonneville Power Administration (BPA) became part of the Department of Energy.</p> <p>BPA ceased to be a respondent as of the volume 68 (FYs 2018–19) data collection cycle because it no longer had reportable R&D activities.</p> <p>In March 2003, the Department of Energy (DOE) created the Office of Electric Transmission and Distribution and the Office of Energy Assurance. In 2005, both offices and elements of the DOE Office of Fossil Energy were merged into the new Office of Electricity Delivery and Energy Reliability.</p>
Office of Cybersecurity, Energy Security, and Emergency Response	In March 2018, the Department of Energy (DOE) created the Office of Cybersecurity, Energy Security, and Emergency Response. Data were first collected on volume 68 with estimated R&D obligations for FY 2019.

Table A-2. Notes associated with agencies included in the Survey of Federal Funds for Research and Development: Volumes 29–74

(Notes)

Department	Explanatory information
Department of Health and Human Services	
Administration on Aging	<p>In FY 1991, Human Development Services was replaced by the Administration for Children and Families (ACF) and by the Administration on Aging (AOA). Since FY 1992, data shown for ACF have been separate from obligations for AOA.</p> <p>In FY 2012, AOA was transferred to the Administration for Community Living.</p>
Administration for Children and Families	<p>Obligations reported for the Administration for Children and Families (ACF) may be incomplete for FY 1992 due to unavailability of data.</p> <p>In FY 1991, Human Development Services was replaced by ACF and by the Administration on Aging (AOA). Since FY 1992, data shown for ACF have been separate from obligations for AOA.</p>
Administration for Community Living	<p>The Administration for Community Living (ACL) began reporting in FY 2015, replacing the Administration on Aging, which was transferred to ACL when ACL was established on 18 April 2012. Several programs that serve older adults and people with disabilities were transferred from other agencies to ACL, including a number of programs from the Department of Education due to the 2014 Workforce Innovation and Opportunities Act.</p> <p>Prior to FY 2012, data reported for the ACL was for the Administration on Aging.</p>
Advanced Research Projects Agency for Health	<p>The Advanced Research Projects Agency for Health (ARPA-H) was signed into Public Law 117-013 on 15 March 2022. Although ARPA-H is administratively managed by the National Institutes of Health (NIH), its R&D obligations are reported separately from NIH as a distinct component of HHS. ARPA-H was added as a respondent as of volume 73 (FYs 2023–24).</p>
Agency for Healthcare Research and Quality	<p>In FY 1991, the Agency for Health Care Policy and Research (AHCPR) became separate from the Office of the Assistant Secretary for Health.</p> <p>AHCPR was renamed the Agency for Healthcare Research and Quality as stated in the Healthcare Research and Quality Act of 1999, signed by the president on 6 December 1999.</p>
Agency for Toxic Substances and Disease Registry	<p>Prior to FY 2000, data reported for the Environmental Protection Agency include R&D data for the Agency for Toxic Substances and Disease Registry.</p>
Alcohol, Drug Abuse, and Mental Health Administration	<p>Due to reorganization within the Department of Health and Human Services, the Alcohol, Drug Abuse, and Mental Health Administration ceased to exist as of October 1992, and its R&D functions are reported with National Institutes of Health data beginning with FY 1992. However, research support for some fields (such as psychology) in FY 1992 seems to be underreported.</p>
Biomedical Advanced Research and Development Authority	<p>The Biomedical Advanced Research and Development Authority began reporting for volume 69 (FYs 2019–20). It could not submit any geographical data for FY 2019, so its data were reported as undistributed on the state tables.</p>
Centers for Medicare and Medicaid Services	<p>The Health Care Financing Administration became the Centers for Medicare and Medicaid Services (CMS) as of 1 July 2001.</p> <p>Starting with volume 68 (FYs 2018–19), CMS funding was reported by the CMS Office of Financial Management at an agency-wide level instead of by the CMS Center for Medicare and Medicaid Innovation and its R&D group, the Office of Research, Development, and Information, which used to report at a component level.</p>
Health Care Financing Administration	<p>The Health Care Financing Administration became the Centers for Medicare and Medicaid Services as of 1 July 2001.</p>
Human Development Services	<p>In FY 1991, Human Development Services was replaced by the Administration for Children and Families (ACF) and by the Administration on Aging (AOA). Since FY 1992, data shown for ACF have been separate from obligations for AOA.</p>
National Institutes of Health	<p>Due to reorganization within the Department of Health and Human Services, the Alcohol, Drug Abuse, and Mental Health Administration ceased to exist as of October 1992, and its R&D functions have been reported with National Institutes of Health (NIH) data since FY 1992. However, research support for some fields (such as psychology) in FY 1992 seems to be underreported.</p> <p>In FY 2000, NIH reclassified as research the activities that it had previously classified as development; NIH data for FY 2000 forward reflect this change. For more information on the classification changes at the National Aeronautics and Space Administration and NIH, refer to Classification Revisions Reduce Reported Federal Development Obligations (InfoBrief NSF 02-309), February 2002, available at https://www.nsf.gov/statistics/nsf02309/.</p> <p>NIH revised its financial database; beginning with FY 2004, NIH records no longer contain information on the field of science and engineering. Data for FY 2004 and later years are not directly comparable with data for FY 2003 and earlier years.</p>

Table A-2. Notes associated with agencies included in the Survey of Federal Funds for Research and Development: Volumes 29–74

(Notes)

Department	Explanatory information
Office of the Assistant Secretary for Health	In FY 1991, the Agency for Health Care Policy and Research became separate from the Office of the Assistant Secretary for Health (ASH). ASH merged with the Office of the Secretary of Health and Human Services (OS) as of FY 1996. The merger created a new role for the Assistant Secretary for Health who became head of the Office of Public Health and Science, a new division within OS.
Office of the Secretary of Health and Human Services	The Office of the Assistant Secretary for Health merged with the Office of the Secretary of Health and Human Services (OS) as of FY 1996. The merger created a new role for the Assistant Secretary for Health who became head of the Office of Public Health and Science, a new division within OS.
Office of Public Health and Science	The Office of the Assistant Secretary for Health merged with the Office of the Secretary of Health and Human Services (OS) as of FY 1996. The merger created a new role for the Assistant Secretary for Health who became head of the Office of Public Health and Science, a new division within OS.
Social Security Administration	Effective 31 March 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health and Human Services.
Substance Abuse and Mental Health Services Administration	In FY 2003, the Substance Abuse and Mental Health Services Administration (SAMHSA) reclassified some of its funding categories as non-R&D that were considered R&D in prior years. Data for FYs 2003–06 from SAMHSA are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.
Department of Homeland Security	On 25 November 2002, the president signed the Homeland Security Act of 2002, establishing the Department of Homeland Security (DHS). DHS includes the R&D activities previously reported by the Coast Guard, the Federal Emergency Management Agency, the Science and Technology Directorate, the Secret Service, and the Transportation Security Administration.
Countering Weapons of Mass Destruction Office	The Countering Weapons of Mass Destruction (CWMD) Office was established on 7 December 2017. CWMD consolidated primarily the Domestic Nuclear Detection Office (DNDO) and a majority of the Office of Health Affairs, as well as other DHS elements. Prior to FY 2018, data reported for the CWMD would have been under the DNDO.
Domestic Nuclear Detection Office	The Domestic Nuclear Detection Office (DNDO) began reporting for FY 2014. It was consolidated under the Countering Weapons of Mass Destruction (CWMD) Office in December 2017. All of its funding is reported under the CWMD.
Science and Technology Directorate	The Transportation Security Laboratory (TSL) initially existed under the Transportation Security Administration (TSA) of the Department of Homeland Security (DHS), but in the 2005 DHS reorganization, TSL was moved from TSA to the Science and Technology Directorate. During the volume 67 (FYs 2017–18) data collection, the Science and Technology Directorate revised its FY 2016 data.
Secret Service	The Secret Service, which did not report data between FY 2009 and FY 2017, resumed reporting for volume 68 (FYs 2018–19).
Transportation Security Administration	The Transportation Security Administration, which did not report data between FY 2010 and FY 2017, resumed reporting for volume 68 (FYs 2018–19).
Department of the Interior	
Bonneville Power Administration	In FY 1982, the Bonneville Power Administration became part of the Department of Energy.
Bureau of Land Management	In January 1996, the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management (BLM), the Geological Survey, and the Department of Energy. BLM, which did not report data between FY 1999 and FY 2014, resumed reporting for volume 65 (FYs 2015–17).
Bureau of Mines	In January 1996, the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.
Bureau of Ocean Energy Management	The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.
Bureau of Ocean Energy Management, Regulation, and Enforcement	On 19 May 2010, the Minerals Management Service was renamed the Bureau of Ocean Energy Management, Regulation, and Enforcement (BOEMRE). BOEMRE was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.

Table A-2. Notes associated with agencies included in the Survey of Federal Funds for Research and Development: Volumes 29–74

(Notes)

Department	Explanatory information
Bureau of Safety and Environmental Enforcement	The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.
Fish and Wildlife Service	The name of the National Biological Survey changed to the National Biological Service (NBS) on 5 January 1995. Since FY 1994, the NBS has performed all biological research activities formerly funded by the Fish and Wildlife Service (FWS) and the National Park Service. FWS, which did not report data between FY 1999 and FY 2014, resumed reporting for volume 65 (FYs 2015–17).
Geological Survey	The Office of Water Research and Technology has been combined with the Geological Survey (USGS) since 1985. Funding for the National Biological Service (NBS) comes from the USGS congressional appropriation. Since FY 1996, data for NBS have been included with the USGS submission. In January 1996, the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the USGS, and the Department of Energy.
Minerals Management Service	On 19 May 2010, the Minerals Management Service was renamed the Bureau of Ocean Energy Management, Regulation, and Enforcement.
National Biological Service	The name of the National Biological Survey changed to the National Biological Service (NBS) on 5 January 1995. Since FY 1994, NBS has performed all biological research activities formerly funded by the Fish and Wildlife Service and the National Park Service. Funding for NBS comes from the Geological Survey's congressional appropriation. Since FY 1996, data for the NBS have been included with the Geological Survey submission.
National Park Service	The name of the National Biological Survey changed to the National Biological Service (NBS) on 5 January 1995. Since FY 1994, NBS has performed all biological research activities formerly funded by the Fish and Wildlife Service and the National Park Service (NPS). Obligations for FYs 2003–08 are for the NPS natural resources program; data for the cultural resources program were not available.
Office of the Secretary of the Interior	The Department of the Interior's Office of the Secretary has not funded any R&D activities since FY 1995.
Office of Water Research and Technology	The Office of Water Research and Technology has been combined with the Geological Survey since 1985.
Department of Justice	
Drug Enforcement Administration	Large differences exist between the Drug Enforcement Administration's R&D funding amounts for FYs 1996 and 1997 due to changes in the agency's R&D programs.
Immigration and Naturalization Service	On 1 March 2003, service and benefit functions of Immigration and Naturalization Service were transferred to the Department of Homeland Security as the Citizenship and Immigration Services.
Department of Labor	
Labor-Management Relations and Cooperative Programs	In 1984, Labor-Management Relations and Cooperative Programs replaced the Labor-Management Services Administration.
Labor-Management Services Administration	In 1984, the Labor-Management Services Administration was replaced by the Labor-Management Relations and Cooperative Programs.
Occupational Safety and Health Administration	The Occupational Safety and Health Administration ceased to be a respondent as of volume 73 (FYs 2023–24) because it no longer had reportable R&D activities.
Department of State	The Agency for International Development (AID) transferred from the Department of State (DOS) to the International Development Cooperation Agency on 1 October 1979. Increases in outlays and obligations reported by DOS during the volume 44 (FYs 1994–96) survey cycle reflect reporting of moneys received through interagency agreements with AID. DOS transfers these outlays and obligations to other R&D performers. Effective 1 April 1999, all functions and authorities of the Arms Control and Disarmament Agency were transferred to DOS. On 1 October 1999, the Information Agency was integrated into DOS.

Table A-2. Notes associated with agencies included in the Survey of Federal Funds for Research and Development: Volumes 29–74

(Notes)

Department	Explanatory information
	<p>DOS data for FY 2014 were excluded due to their poor quality.</p> <p>As of volume 68 (FYs 2018–19), DOS added the Global Health Programs R&D funding.</p> <p>In FY 2024, DOS reported minimum amounts of spending on R&D programs due to the suspension of operations.</p>
Agency for International Development	<p>The Agency for International Development (AID) transferred from the Department of State (DOS) to the International Development Cooperation Agency on 1 October 1979.</p> <p>Increases in outlays and obligations reported by DOS during the volume 44 (FYs 1994–96) survey cycle reflect reporting of moneys received through interagency agreements with AID. DOS transfers these outlays and obligations to other R&D performers.</p>
Department of Transportation	<p>The Department of Transportation (DOT) did not become operational until 1967. Prior to 1966, similar obligations appear under DOT's organizational predecessors: the Bureau of Public Roads, the Coast Guard (formerly part of the Department of the Treasury and transferred to the Department of Homeland Security in 2003), the Federal Aviation Agency, the Office of Transportation Research and Development, and other components of the Department of Commerce vested with transportation functions.</p>
Coast Guard	<p>On 25 November 2002, the president signed the Homeland Security Act of 2002, establishing the Department of Homeland Security (DHS). DHS includes the R&D activities previously reported by the Coast Guard.</p>
Federal Highway Administration	<p>The Federal Motor Carrier Safety Administration, formerly a part of the Federal Highway Administration, was established within the Department of Transportation on 1 January 2000, as stated in the Motor Carrier Safety Improvement Act of 1999 (Public Law No. 106-159, 113 Stat. 1748 [9 December 1999]).</p>
Federal Motor Carrier Safety Administration	<p>The Federal Motor Carrier Safety Administration, formerly a part of the Federal Highway Administration, was established within the Department of Transportation on 1 January 2000, as stated in the Motor Carrier Safety Improvement Act of 1999 (Public Law No. 106-159, 113 Stat. 1748 [9 December 1999]).</p>
Federal Transit Administration	<p>The name of this agency changed from the Urban Mass Transit Administration to the Federal Transit Administration on 18 December 1991.</p>
Maritime Administration	<p>In 1981, the Maritime Administration moved from the Department of Commerce to the Department of Transportation.</p>
Research and Innovative Technology Administration	<p>In January 2014, all Research and Innovative Technology Administration programs were transferred into the Office of the Assistant Secretary for Research and Technology in the Office of the Secretary of Transportation.</p>
Department of the Treasury	
Customs Service	<p>Beginning in FY 2003, the Customs Service Research and Development program was transferred to other subagencies of the Department of Homeland Security.</p>
Internal Revenue Service	<p>Due to the reorganization of the Internal Revenue Service (IRS) and subsequent unavailability of data, FY 1992 figures were taken from estimates made in the volume 41 (FYs 1991–93) submission.</p> <p>Large changes in obligations reported by IRS for volume 44 (FYs 1994–96) are due to shifts in research funding.</p> <p>In 2017, the IRS performed a detailed evaluation and assessment of its programs and determined that none of its functions can be defined as an R&D activity as defined in Office of Management and Budget Circular A-11. Despite not having any R&D obligations, the IRS initially was retained as a respondent because it sponsors a federally funded research and development center, the Center for Enterprise Modernization. It was decided to remove IRS from the target population as of volume 72 (FYs 2022–23).</p>
Office of Thrift Supervision	<p>In 1989, the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision (OTS). In 1990, OTS became part of the Department of the Treasury.</p> <p>As of 21 July 2011, OTS merged with the Office of the Comptroller of the Currency; it ceased to exist on 19 October 2011.</p>
Secret Service	<p>On 25 November 2002, the president signed the Homeland Security Act of 2002, establishing the Department of Homeland Security (DHS). DHS includes the R&D activities previously reported by the Secret Service.</p>
Department of Veterans Affairs	<p>During volume 68 (FYs 2018–19), the Department of Veterans Affairs added funds for the Medical Services Support to the existing R&D funding to fully report the total cost of intramural R&D. Although the Medical Services Support do not directly fund specific R&D activities, they do cover the additional expense of hosting intramural research programs that were not previously reported.</p>
Other agencies	<p>Administrative Office of the U.S. Courts (AOUSC) began reporting as of volume 66 (FYs 2016–17) because it sponsored a federal funded research and development center (FFRDC), the Judiciary Modernization Engineering Center. That Center was decertified as a FFRDC as of 31 January 2021. AOUSC ceased to be a respondent as of volume 73 (FYs 2023–24).</p>

Table A-2. Notes associated with agencies included in the Survey of Federal Funds for Research and Development: Volumes 29–74

(Notes)

Department	Explanatory information
Agency for Global Media	<p>On 22 August 2018, as part of a modernization effort, the Broadcasting Board of Governors changed its name to the Agency for Global Media (AGM).</p> <p>AGM did not submit data from FY 2008 through FY 2018 but began reporting again for volume 69 (FYs 2019–20).</p> <p>In FY 2024, AGM reported minimum amounts of spending on R&D programs due to the suspension of operations.</p>
Agency for International Development	<p>Increases in outlays and obligations reported by the Department of State (DOS) during the volume 44 (FYs 1994–96) survey cycle reflect reporting of moneys received through interagency agreements with the Agency for International Development (AID). DOS transfers these outlays and obligations to other R&D performers.</p> <p>AID's new integrated system for budget and accounting records used to report data for volume 48 (FYs 1998–2000) did not contain codes for determining either fields of science and engineering or performer data. The National Science Foundation estimated these data based on AID's Budget Authority (FYs 2000–02) and AID's Survey of Federal Funds for Research and Development submission to volume 44 (FYs 1994–96).</p> <p>AID transferred from DOS to the International Development Cooperation Agency on 1 October 1979.</p> <p>In FY 2024, AID reported minimum amounts of spending on R&D programs due to the suspension of operations.</p>
Arms Control and Disarmament Agency	<p>FY 1994 figures for the Arms Control and Disarmament Agency (ACDA) are based on the agency's volume 43 submission for FY 1993.</p> <p>Effective 1 April 1999, all functions and authorities of ACDA were transferred to the Department of State.</p>
Broadcasting Board of Governors	<p>The Broadcasting Board of Governors (BBG) became an independent federal entity on 1 October 1999, as mandated by the Foreign Affairs Reform and Restructuring Act (Public Law 105-277), signed by the president on 21 October 1998.</p> <p>On 22 August 2018, as part of a modernization effort, the BBG changed its name to the Agency for Global Media.</p>
Consumer Product Safety Commission	<p>The Consumer Product Safety Commission did not submit data from FY 2004 through FY 2011 but began reporting again for volume 62 (FYs 2012–14).</p>
Environmental Protection Agency	<p>Before FY 2000, data reported for the Environmental Protection Agency (EPA) included R&D data for the Agency for Toxic Substances and Disease Registry.</p> <p>In FY 2010, the EPA was unable to report R&D or R&D plant by performer or by location. Percentage distributions calculated from EPA's data submission for FY 2009 were used to estimate its FY 2010 R&D by performer and its location.</p>
Federal Communications Commission	<p>The Federal Communications Commission last reported R&D obligations for FY 2020; it ceased to be a respondent as of volume 72 (FYs 2022–23) because it no longer had reportable R&D activities.</p>
Federal Emergency Management Agency	<p>The Federal Emergency Management Agency (FEMA) was activated 1 April 1979, by Executive Order 12127. FEMA merged many of the separate disaster-related responsibilities, including the National Fire Prevention and Control Administration, whose 1978 funds are reported under FEMA.</p> <p>Functions for the Defense Civil Preparedness Agency transferred from the Department of Defense to FEMA on 20 July 1979.</p> <p>Functions for the National Fire Prevention and Control Administration transferred from the Department of Commerce to FEMA on 1 April 1979.</p> <p>Functions were transferred to the Department of Homeland Security (DHS) by act of 25 November 2002 (116 Stat. 2213) and absorbed into DHS effective 1 March 2003.</p>
General Services Administration	<p>Since 1985, the National Archives and Records Administration has been separate from the General Services Administration.</p>
Information Agency	<p>Data reported for the Information Agency include funds for the former International Communication Agency for FYs 1977–81.</p> <p>On 1 October 1999, the Information Agency was integrated into the Department of State.</p>
International Development Cooperation Agency	<p>The Agency for International Development transferred from the Department of State to the International Development Cooperation Agency on 1 October 1979.</p>
International Trade Commission	<p>In 2000, the International Trade Commission stopped classifying any of its activities as R&D.</p>
Library of Congress	<p>For the FYs 2024-25 cycle, the Library of Congress, known to conduct R&D programs was unable to report and did not provide inputs to estimate data. Therefore, data users should use caution when comparing data results.</p>

Table A-2. Notes associated with agencies included in the Survey of Federal Funds for Research and Development: Volumes 29–74

(Notes)

Department	Explanatory information
National Aeronautics and Space Administration	During the volume 45 (FYs 1995–97) survey cycle, the National Aeronautics and Space Administration (NASA) made a statistical adjustment to the 1994 and 1995 field of science and engineering values to diminish a computational error introduced by its software.
	In FY 2000, NASA reclassified the International Space Station (ISS) as a physical asset, reclassified ISS Research as equipment, and transferred funding for the program from R&D to R&D plant.
	In FYs 2004–06, NASA implemented a full-cost budget approach, which includes all of the direct and indirect costs for procurement, personnel, travel, and other infrastructure-related expenses relative to a particular program and project. NASA's data for FY 2004 and later years may not be directly comparable with its data for FY 2003 and earlier years.
	In FY 2006, NASA reclassified funding for the following items as operational costs: Space Operations, the Hubble Space Telescope, the Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope. This funding was previously reported as R&D plant.
	Between FYs 2006 and 2007, NASA's R&D obligations decreased by \$1 billion. Of this amount, \$850 million was accounted for by obligations for operational projects that NASA excluded in FY 2007 but reported in FY 2006. The remainder was from an overall decrease in obligations between FYs 2006 and 2007.
	In FY 2010, NASA resumed reporting ISS obligations as R&D plant.
	In FY 2012, NASA began reporting ISS obligations as research rather than R&D plant.
	In FY 2013, NASA revamped its reporting process so that the data for FY 2012 forward are not directly comparable with totals reported in previous years.
	NASA estimated that the revised Office of Management and Budget definition for "experimental development" reduced its reported R&D total by about \$2.7 billion in FY 2017 and \$2.9 billion in FY 2018 from what would have been reported under the previous definition prior to volume 66 (FYs 2016–17).
During the volume 72 cycle (FYs 2022–23), NASA revised its FY 2021 data by field of R&D and performer categories based on improved classification procedures developed during the volume 72 reporting period.	
National Archives and Records Administration	Since 1985, the National Archives and Records Administration (NARA) has been separate from the General Services Administration.
	NARA ceased to be a respondent as of volume 73 (FYs 2023–24) because it no longer had reportable R&D activities.
National Science Foundation	The National Science Foundation made changes to its field of science and engineering coding system, producing changes to some of the FY 1996 field of science data (such as mechanical engineering). These changes are reflected in the historical data tables.
Patient-Centered Outcomes Research Trust Fund	The Patient-Centered Outcomes Research Trust Fund (PCORTF) was established by Congress through the Patient Protection and Affordable Care Act of 2010, signed by the president on 23 March 2010. PCORTF began reporting for volume 67 (FYs 2017–18), but it also submitted data for FYs 2011–16.
Postal Service	The Postal Service, which did not report data between FY 1999 and FY 2016, resumed reporting for volume 67 (FYs 2017–18) and submitted data for FYs 2015–16.
Office of Thrift Supervision	In 1989, the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision (OTS). In 1990, OTS became part of the Department of the Treasury.
Social Security Administration	Effective 31 March 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health and Human Services.
Tennessee Valley Authority	During the volume 47 (FYs 1997–99) survey cycle, the Tennessee Valley Authority (TVA) made adjustments to its FY 1996 R&D values to correct reporting errors. TVA reported that in recent years, most of the funds TVA had reported had been those invested by TVA's Office of Power rather than congressionally appropriated funds. In addition, a substantial amount of congressionally appropriated funds earmarked for environmental compliance and site restoration was erroneously reported as R&D in past years. TVA determined that these funds did not meet the criteria for classification as R&D spending. Some trend shifts are related to these adjustments because TVA could only make revisions as far back as 1996.
	TVA, which did not report data between FY 1999 and FY 2016, resumed reporting for volume 67 (FYs 2017–18).

Note(s):

These notes include explanatory information on federal agencies' reports for volume 29 (FYs 1979–81) through volume 74 (FYs 2024–25) of the Survey of Federal Funds for Research and Development (Federal Funds for R&D). For volume 74, actual data were collected for FY 2024, and estimates were collected for FY 2025.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table A-3. Crosswalk for the Survey of Federal Funds for Research and Development: Volumes 70 and 71

(Notes)

Volume 70 (field of science and engineering)	Change	Volume 71 (field of R&D)
Computer sciences and mathematics; Computer sciences	Separated	Computer and information sciences
Mathematics; Other computer sciences and mathematics	Separated	Mathematics and statistics
Environmental sciences	New wording	Geosciences, atmospheric sciences, and ocean sciences
Atmospheric sciences	New wording	Atmospheric science and meteorology
Geological sciences	New wording	Geological and earth sciences
Oceanography	New wording	Ocean sciences and marine sciences
Other environmental sciences	New wording	Other geosciences, atmospheric sciences, and ocean sciences
Life sciences		Life sciences
Agricultural sciences		Agricultural sciences
Biological sciences (excluding environmental) Environmental biology	Combined	Biological and biomedical sciences
Medical sciences	New wording	Health sciences
-	New item	Natural resources and conservation
Other life sciences		Other life sciences
Physical sciences		Physical sciences
Astronomy	New wording	Astronomy and astrophysics
Chemistry		Chemistry
-	New item	Materials science
Physics		Physics
Other physical sciences		Other physical sciences
Psychology		Psychology
Biological aspects		Biological aspects
Social aspects		Social aspects
Other psychological sciences		Other psychological sciences
Social sciences		Social sciences
Anthropology		Anthropology
Economics		Economics
Political science	New wording	Political science and government
Sociology	New wording	Sociology, demography, and population studies
Other social sciences		Other social sciences (education research and law moved to the category other fields)
Engineering		Engineering
Aeronautical engineering; Astronautical engineering	Combined	Aerospace, aeronautical, and astronautical engineering
-	New item	Bioengineering and biomedical engineering
Chemical engineering		Chemical engineering
Civil engineering		Civil engineering
Electrical engineering	New wording	Electrical, electronics, and communications engineering
-	New item	Industrial and manufacturing engineering
Mechanical engineering		Mechanical engineering
Metallurgy and materials engineering	New wording	Metallurgical and materials engineering
Other engineering		Other engineering
-	New section	Other fields
-		Business management and business administration
-		Communication and communications technologies

Table A-3. Crosswalk for the Survey of Federal Funds for Research and Development: Volumes 70 and 71

(Notes)

Volume 70 (field of science and engineering)	Change	Volume 71 (field of R&D)
-	Separated	Education research (separated from other social sciences)
-		Humanities, including history
-	Separated	Law (separated from other social sciences)
-		Social work
-		Visual and performing arts
-		All other fields

Note(s):

This table summarizes changes in the taxonomy from volume 70 (FYs 2020–21; fields of science and engineering) to volume 71 (FYs 2021–22; fields of research and development).

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

Table A-4. Survey of Federal Funds for Research and Development, by volume number and federal fiscal years surveyed

(Survey volume number and fiscal year)

Volume number	Prior year actual	Current year estimate	Budget year projection
Volume 1	1951	1952	na
Volume 2	1952	1953	1954
Volume 3	1953	1954	1955
Volume 4	1954	1955	1956
Volume 5	1955	1956	1957
Volume 6	1956	1957	1958
Volume 7	1957	1958	1959
Volume 8	1958	1959	1960
Volume 9	1959	1960	1961
Volume 10	1960	1961	1962
Volume 11	1961	1962	1963
Volume 12	1962	1963	1964
Volume 13	1963	1964	1965
Volume 14	1964	1965	1966
Volume 15	1965	1966	1967
Volume 16	1966	1967	1968
Volume 17	1967	1968	1969
Volume 18	1968	1969	1970
Volume 19	1969	1970	1971
Volume 20	1970	1971	1972
Volume 21	1971	1972	1973
Volume 22	1972	1973	1974
Volume 23	1973	1974	1975
Volume 24	1974	1975	1976
Volume 25	1975	1976	1977
Volume 26	1976	1977	1978
Volume 27	1977	1978	1979
Volume 28	1978	1979	1980
Volume 29	1979	1980	1981
Volume 30	1980	1981	1982
Volume 31	1981	1982	1983
Volume 32	1982	1983	1984
Volume 33	1983	1984	1985
Volume 34	1984	1985	1986
Volume 35	1985	1986	1987
Volume 36	1986	1987	1988
Volume 37	1987	1988	1989
Volume 38	1988	1989	1990
Volume 39	1989	1990	1991
Volume 40	1990	1991	1992
Volume 41	1991	1992	1993
Volume 42	1992	1993	1994
Volume 43	1993	1994	1995
Volume 44	1994	1995	1996
Volume 45	1995	1996	1997
Volume 46	1996	1997	1998
Volume 47	1997	1998	1999
Volume 48	1998	1999	2000
Volume 49	1999	2000	2001
Volume 50	2000	2001	2002
Volume 51	2001	2002	2003
Volume 52	2002	2003	2004
Volume 53	2003	2004	2005

Table A-4. Survey of Federal Funds for Research and Development, by volume number and federal fiscal years surveyed

(Survey volume number and fiscal year)

Volume number	Prior year actual	Current year estimate	Budget year projection
Volume 54	2004	2005	2006
Volume 55	2005	2006	2007
Volume 56	2006	2007	2008
Volume 57	2007	2008	2009
Volume 58	2008	2009	2010
Volume 59	2009	2010	2011
Volume 60	2010	2011	2012
Volume 61	2011	2012	2013
Volume 62	2012	2013	2014
Volume 63	2013	2014	2015
Volume 64	2014	2015	2016
Volume 65	2015	2016	2017
Volume 66	2016	2017	na
Volume 67	2017	2018	na
Volume 68	2018	2019	na
Volume 69	2019	2020	na
Volume 70	2020	2021	na
Volume 71	2021	2022	na
Volume 72	2022	2023	na
Volume 73	2023	2024	na
Volume 74	2024	2025	na

na = not applicable; data were not collected.

Note(s):

Prior year actuals refer to the final obligations for the given fiscal year. Current year estimates refer to the fiscal year that was still open while the survey was conducted; for current year estimates, preliminary obligations have been made for the given fiscal year but final obligations are not yet available. Budget year projections refer to the fiscal year that has not yet started and thus no obligations have yet been made. The Congressional Budget and Impoundment Act of 1974 (Section 501 of P.L. 93-344, codified at 31 U.S.C. 1102) changed the federal fiscal year from 1 July to 30 June to the current cycle of 1 October to 30 September effective with FY 1977. A 3-month transition period from 1 July 1976 to 30 September 1976 was provided for under the Fiscal Year Transition Act (P.L. 94-274). The National Center for Science and Engineering Statistics discontinued the collection of the budget year projections for R&D effective with volume 66.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.

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Contact Us

NCSES

National Center for Science and Engineering Statistics
Directorate for Social, Behavioral and Economic Sciences
U.S. National Science Foundation
Alexandria, VA 22314
Tel: (703) 292-8780
FIRS: (800) 877-8339
TDD: (800) 281-8749
E-mail: ncsesweb@nsf.gov