

TABLE 12

## Federal obligations for federal agency performance of R&amp;D, by agency, type of R&amp;D, and R&amp;D plant: FY 2021

(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	72,547,782	71,665,012	6,198,988	10,565,461	54,900,563	882,770
Departments						
Department of Agriculture	1,767,407	1,709,981	758,591	746,155	205,234	57,426
Agricultural Marketing Service	7,259	7,259	0	3,629	3,629	0
Agricultural Research Service	1,345,867	1,300,341	650,171	520,137	130,034	45,525
Animal and Plant Health Inspection Service	29,448	29,448	14,802	0	14,647	0
Economic Research Service	74,920	74,920	0	74,920	0	0
Forest Service	270,540	259,000	72,354	133,608	53,038	11,540
National Agricultural Statistics Service	8,487	8,487	0	4,600	3,886	0
National Institute of Food and Agriculture	20,058	20,058	10,796	9,262	0	0
Natural Resources Conservation Service	10,829	10,469	10,469	0	0	360
Department of Commerce	1,739,267	1,310,469	259,019	893,197	158,253	428,798
Census Bureau	108,681	108,681	0	55,936	52,744	0
National Institute of Standards and Technology	934,846	684,255	259,019	416,196	9,040	250,591
National Oceanic and Atmospheric Administration	688,861	510,654	0	414,185	96,469	178,207
National Telecommunications and Information Administration	6,879	6,879	0	6,879	0	0
Department of Defense	24,601,093	24,433,843	482,933	1,996,015	21,954,895	167,250
Defense Advanced Research Projects Agency	278,772	278,772	17,454	79,804	181,514	0
Defense Health Agency	1,027,250	1,027,250	6,853	8,821	1,011,576	0
Department of the Air Force	4,564,124	4,442,791	56,858	592,873	3,793,060	121,334
Department of the Army	5,397,140	5,397,140	181,344	717,019	4,498,777	0
Department of the Navy	7,075,617	7,038,371	188,937	364,561	6,484,874	37,246
Space Force	236,617	236,617	8,643	0	227,974	0
Other defense agencies	6,021,572	6,012,901	22,844	232,937	5,757,121	8,670
Department of Energy	1,032,373	965,413	215,968	656,063	93,382	66,959
Advanced Research Projects Agency--Energy	1,060	1,060	0	530	530	0
Electricity Delivery and Energy Reliability	2,947	2,947	287	1,136	1,524	0
Environmental Management	*	*	0	*	*	0
Fossil Energy	450,796	421,796	0	421,796	0	29,000
National Nuclear Security Administration	355,141	321,819	0	231,172	90,647	33,322
Defense Programs	304,824	271,501	0	230,912	40,590	33,322
Naval Nuclear Propulsion Program	48,600	48,600	0	0	48,600	0
Office of Defense Nuclear Nonproliferation	1,718	1,718	0	260	1,458	0
Nuclear Energy	2,109	2,109	0	1,430	679	0
Office of Cybersecurity, Energy Security, and Emergency Response	1,531	1,531	1,531	0	0	0
Office of Science	218,787	214,150	214,150	0	0	4,637
Department of Health and Human Services	38,348,696	38,207,206	3,152,398	3,632,700	31,422,108	141,490
Administration for Children and Families	365	365	0	365	0	0
Agency for Healthcare Research and Quality	76,783	76,783	0	46,928	29,855	0
Biomedical Advanced Research and Development Authority	31,383,819	31,383,819	0	0	31,383,819	0

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(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	107,747	107,747	27,193	72,121	8,433	0
Food and Drug Administration	463,152	455,159	0	455,159	0	7,993
Health Resources and Services Administration	5,979	4,669	2,832	1,837	0	1,311
National Institutes of Health	6,307,749	6,175,564	3,122,373	3,053,191	0	132,185
Office of the Secretary of Health and Human Services	3,100	3,100	0	3,100	0	0
Office of the Assistant Secretary for Planning and Evaluation	3,100	3,100	0	3,100	0	0
Department of Homeland Security	187,354	182,167	10,648	72,068	99,452	5,187
Countering Weapons of Mass Destruction Office	5,927	5,927	0	3,571	2,356	0
Cybersecurity and Infrastructure Security Agency	2,918	2,918	0	2,918	0	0
Science and Technology Directorate	147,514	143,327	10,648	64,578	68,102	4,187
Secret Service	994	994	0	0	994	0
Transportation Security Administration	30,000	29,000	0	1,000	28,000	1,000
Department of the Interior	783,416	781,846	78,249	576,265	127,332	1,570
Bureau of Land Management	4,238	4,238	86	3,878	274	0
Bureau of Ocean Energy Management	54,676	54,676	0	42,563	12,113	0
Bureau of Reclamation	27,031	26,331	0	13,478	12,853	700
Bureau of Safety and Environmental Enforcement	10,849	9,979	128	9,831	*	870
Fish and Wildlife Service	32,650	32,650	0	32,650	0	0
Geological Survey	636,575	636,575	78,035	457,153	101,387	0
National Park Service	17,397	17,397	0	16,712	685	0
Department of Justice	11,413	11,413	4,816	5,450	1,148	0
Bureau of Prisons	*	*	0	*	0	0
Office of Justice Programs	11,412	11,412	4,816	5,448	1,148	0
Department of Labor	2,596	2,596	0	2,596	0	0
Employee Benefits Security Administration	404	404	0	404	0	0
Occupational Safety and Health Administration	2,192	2,192	0	2,192	0	0
Department of State	64,000	64,000	4,000	40,000	20,000	0
Department of Transportation	176,518	176,506	1,119	147,531	27,857	*
Federal Aviation Administration	87,261	87,249	0	65,409	21,840	*
Federal Highway Administration	58,088	58,088	0	53,926	4,162	0
Federal Motor Carrier Safety Administration	3,283	3,283	*	2,990	268	0
Federal Railroad Administration	10,764	10,764	0	9,178	1,586	0
Office of the Secretary of Transportation	11,498	11,498	0	11,498	0	0
Pipeline and Hazardous Materials Safety Administration	5,624	5,624	1,094	4,530	0	0
Department of the Treasury	2,674	2,674	0	2,518	155	0
Bureau of Engraving and Printing	2,500	2,500	0	2,500	0	0
Mint	174	174	0	*	155	0
Department of Veterans Affairs	1,609,216	1,609,216	624,980	936,176	48,060	0
Other agencies						
Agency for International Development	9,185	9,185	0	5,985	3,200	0
Consumer Product Safety Commission	241	241	0	241	0	0

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(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
Environmental Protection Agency	264,460	264,460	0	205,004	59,456	0
Federal Trade Commission	8,094	8,094	0	8,094	0	0
Library of Congress	2,727	2,727	0	550	2,177	0
National Aeronautics and Space Administration	1,749,811	1,749,052	536,127	535,070	677,855	760
National Science Foundation	21,249	7,930	7,640	290	0	13,319
Nuclear Regulatory Commission	36,207	36,207	0	36,207	0	0
Smithsonian Institution	62,500	62,500	62,500	0	0	0
Social Security Administration	67,286	67,286	0	67,286	0	0

\* = amount greater than \$0 but less than \$50,000.

**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. FY 2021 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). See technical table A-2 for additional notes associated with the agencies listed in this table.

**Source(s):**

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2021–22.