

TABLE 7

Federal obligations for research and experimental development, by agency and performer: FY 2021

(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	190,151	71,665	14,791	50,225	39,766	11,985	966	753
Departments								
Department of Agriculture	2,898	1,710	0	26	1,093	50	12	7
Agricultural Marketing Service	13	7	0	*	5	*	1	*
Agricultural Research Service	1,510	1,300	0	0	190	13	*	6
Animal and Plant Health Inspection Service	42	29	0	0	13	0	0	0
Economic Research Service	85	75	0	*	8	2	0	0
Forest Service	286	259	0	*	16	4	6	*
National Agricultural Statistics Service	9	8	0	0	*	1	0	0
National Institute of Food and Agriculture	937	20	0	26	858	29	5	0
Natural Resources Conservation Service	13	10	0	0	2	*	*	0
Department of Commerce	1,813	1,310	21	59	398	21	3	1
Census Bureau	109	109	0	0	0	0	0	0
National Institute of Standards and Technology	885	684	20	41	132	8	*	1
National Oceanic and Atmospheric Administration	812	511	1	19	266	13	3	*
National Telecommunications and Information Administration	7	7	0	0	0	0	0	0
Department of Defense	70,707	24,434	3,502	36,306	4,626	1,531	12	296
Defense Advanced Research Projects Agency	3,606	279	101	2,397	637	163	*	29
Defense Health Agency	2,852	1,027	6	337	762	658	0	62
Department of the Air Force	12,390	4,443	574	6,418	853	74	2	26
Department of the Army	11,921	5,397	145	5,562	542	229	0	47
Department of the Navy	16,734	7,038	193	8,112	1,132	209	1	49
Space Force	5,342	237	255	4,801	38	5	6	0
Other defense agencies	17,863	6,013	2,227	8,680	661	195	3	84
Department of Education	364	0	0	31	182	105	45	0
Department of Energy	13,453	965	7,905	2,724	1,599	195	63	2
Advanced Research Projects Agency—Energy	315	1	35	163	107	8	0	0
Electricity Delivery and Energy Reliability	129	3	93	15	9	9	*	0
Energy Efficiency and Renewable Energy	2,114	0	959	650	393	76	35	0
Environmental Management	30	*	25	0	5	0	0	0
Fossil Energy	691	422	67	0	136	65	0	1
National Nuclear Security Administration	4,213	322	2,529	1,350	12	0	0	0
Defense Programs	2,703	272	2,191	239	1	0	0	0
Naval Nuclear Propulsion Program	1,140	49	1	1,091	0	0	0	0
Office of Defense Nuclear Nonproliferation	369	2	336	21	11	0	0	0
Nuclear Energy	455	2	315	76	54	7	0	1

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Office of Cybersecurity, Energy Security, and Emergency Response	2	2	*	0	0	0	0	0
Office of Science	5,506	214	3,882	469	883	29	28	*
Department of Health and Human Services	76,651	38,207	729	4,949	24,559	7,326	570	311
Administration for Children and Families	5	*	0	0	2	2	0	0
Administration for Community Living	107	0	0	5	81	21	*	0
Agency for Healthcare Research and Quality	338	77	0	130	101	30	*	0
Agency for Toxic Substances and Disease Registry	11	0	0	0	7	3	1	*
Biomedical Advanced Research and Development Authority	33,881	31,384	0	2,105	11	376	0	6
Centers for Disease Control and Prevention	696	108	1	171	232	109	43	32
Centers for Medicare and Medicaid Services	421	0	0	12	1	7	401	0
Food and Drug Administration	589	455	0	13	71	42	2	6
Health Resources and Services Administration	41	5	0	1	28	8	0	0
National Institutes of Health	40,546	6,176	728	2,508	24,023	6,723	122	267
Office of the Secretary of Health and Human Services	17	3	0	5	2	7	0	0
Office of the Assistant Secretary for Planning and Evaluation	17	3	0	5	2	7	0	0
Department of Homeland Security	529	182	71	221	36	8	3	7
Coast Guard	10	0	0	10	0	0	0	*
Countering Weapons of Mass Destruction Office	32	6	8	9	7	0	0	3
Cybersecurity and Infrastructure Security Agency	13	3	2	*	0	7	0	0
Science and Technology Directorate	444	143	61	202	29	1	3	5
Secret Service	1	1	0	0	0	0	0	0
Transportation Security Administration	29	29	0	0	0	0	0	0
Department of the Interior	902	782	*	19	71	9	21	1
Bureau of Indian Affairs	5	0	0	0	0	0	5	0
Bureau of Land Management	10	4	0	*	4	1	1	*
Bureau of Ocean Energy Management	77	55	0	8	7	2	3	1
Bureau of Reclamation	38	26	0	4	8	0	*	*
Bureau of Safety and Environmental Enforcement	21	10	*	5	5	1	0	*
Fish and Wildlife Service	33	33	0	0	0	0	0	0
Geological Survey	691	637	0	1	36	5	11	*

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National Park Service	28	17	0	0	11	*	0	0
Department of Justice	85	11	0	7	37	30	1	0
Bureau of Prisons	*	*	0	0	0	0	*	0
Federal Bureau of Investigation	4	0	0	2	1	0	0	0
Office of Justice Programs	81	11	0	4	35	30	1	0
Department of Labor	3	3	0	1	0	0	0	0
Employee Benefits Security Administration	1	*	0	1	0	0	0	0
Occupational Safety and Health Administration	2	2	0	0	0	0	0	0
Department of State	64	64	0	0	0	0	0	0
Department of Transportation	1,108	177	87	412	162	55	212	3
Federal Aviation Administration	507	87	84	243	70	21	0	3
Federal Highway Administration	410	58	2	92	71	12	175	0
Federal Motor Carrier Safety Administration	13	3	1	4	4	*	0	0
Federal Railroad Administration	42	11	*	11	6	13	*	*
Federal Transit Administration	43	0	0	0	1	5	37	0
National Highway Traffic Safety Administration	66	0	0	59	7	*	0	0
Office of the Secretary of Transportation	12	11	0	*	0	0	0	0
Pipeline and Hazardous Materials Safety Administration	16	6	0	3	3	4	0	0
Department of the Treasury	54	3	9	26	*	0	0	17
Bureau of Engraving and Printing	54	3	9	26	*	0	0	17
Mint	*	*	0	0	0	0	0	0
Department of Veterans Affairs	1,698	1,609	89	0	0	0	0	0
Other agencies								
Administrative Office of the U.S. Courts	4	0	4	0	0	0	0	0
Agency for Global Media	5	0	0	5	0	0	0	0
Agency for International Development	82	9	0	15	15	19	0	24
Appalachian Regional Commission	1	0	0	*	*	*	0	0
Consumer Product Safety Commission	*	*	0	0	*	0	0	0
Environmental Protection Agency	520	264	*	201	40	14	0	0
Federal Trade Commission	8	8	0	0	0	0	0	0
Library of Congress	3	3	0	0	0	0	0	0
National Aeronautics and Space Administration	11,753	1,749	2,051	4,654	1,396	1,837	3	62
National Science Foundation	6,705	8	298	510	5,536	313	20	20

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Nuclear Regulatory Commission	80	36	24	7	10	1	0	2
Patient-Centered Outcomes Research Trust Fund	460	0	0	0	0	460	0	0
Postal Service	15	0	0	15	0	0	0	0
Smithsonian Institution	63	63	0	0	0	0	0	0
Social Security Administration	105	67	0	28	6	3	0	*
Tennessee Valley Authority	17	0	0	10	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. 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. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. Federal agency amounts for the Biomedical Advanced Research and Development Authority are transfers to the other agencies in support of Operation Warp Speed. 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.