

TABLE 5

Federal obligations for research and experimental development, by agency and type of R&D: FY 2022

(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Experimental development		
				Total	Advanced technology	Major systems
All agencies	190,421,895	45,392,702	48,414,424	96,614,768	10,138,394	52,047,587
Departments						
Department of Agriculture	3,135,387	1,417,114	1,442,986	275,287	na	na
Agricultural Marketing Service	9,865	0	9,865	0	na	na
Agricultural Research Service	1,650,574	825,287	660,230	165,057	na	na
Animal and Plant Health Inspection Service	44,792	23,598	0	21,194	na	na
Economic Research Service	87,794	0	87,794	0	na	na
Forest Service	329,688	85,255	160,583	83,850	na	na
National Agricultural Statistics Service	11,070	0	6,126	4,944	na	na
National Institute of Food and Agriculture	985,983	468,236	517,747	0	na	na
Natural Resources Conservation Service	15,621	14,738	642	241	na	na
Department of Commerce	2,011,056	273,297	1,416,683	321,077	na	na
Census Bureau	201,701	0	150,213	51,488	na	na
National Institute of Standards and Technology	862,291	273,297	506,911	82,083	na	na
National Oceanic and Atmospheric Administration	935,764	0	748,259	187,505	na	na
National Telecommunications and Information Administration	11,300	0	11,300	0	na	na
Department of Defense	72,351,779	3,149,547	7,016,251	62,185,981	10,138,394	52,047,587
Defense Advanced Research Projects Agency	3,608,857	440,129	1,358,129	1,810,599	1,574,470	236,129
Defense Health Agency	2,136,331	10,713	134,635	1,990,983	1,723,906	267,077
Department of the Air Force	13,898,093	969,884	1,955,684	10,972,525	951,735	10,020,790
Department of the Army	12,059,676	513,592	1,290,220	10,255,864	1,821,172	8,434,692
Department of the Navy	17,487,922	661,985	1,076,932	15,749,004	903,941	14,845,063
Space Force	4,950,769	70,945	104,248	4,775,577	0	4,775,577
Other defense agencies	18,210,131	482,300	1,096,402	16,631,430	3,163,170	13,468,260
Department of Education	401,521	31,589	267,496	102,437	na	na
Department of Energy	13,697,342	6,107,867	5,000,763	2,588,711	na	na
Advanced Research Projects Agency—Energy	402,963	0	201,482	201,482	na	na
Electricity Delivery and Energy Reliability	113,827	7,920	53,394	52,512	na	na
Energy Efficiency and Renewable Energy	1,610,159	0	678,802	931,357	na	na
Environmental Management	35,781	0	11,808	23,973	na	na
Fossil Energy	558,637	0	558,637	0	na	na
National Nuclear Security Administration	4,011,075	121,426	2,672,387	1,217,262	na	na
Defense Programs	2,837,617	0	2,336,964	500,653	na	na
Naval Nuclear Propulsion Program	807,365	0	191,110	616,255	na	na
Office of Defense Nuclear Nonproliferation	366,093	121,426	144,313	100,354	na	na
Nuclear Energy	804,001	0	657,246	146,754	na	na
Office of Cybersecurity, Energy Security, and Emergency Response	36,749	5,126	16,251	15,372	na	na
Office of Science	6,124,150	5,973,395	150,755	0	na	na
Department of Health and Human Services	74,096,906	22,410,508	25,860,920	25,825,478	na	na
Administration for Children and Families	5,228	0	5,228	0	na	na
Administration for Community Living	106,731	0	106,731	0	na	na
Agency for Healthcare Research and Quality	350,400	0	314,345	36,055	na	na
Agency for Toxic Substances and Disease Registry	11,777	0	11,777	0	na	na
Biomedical Advanced Research and Development Authority	28,412,831	0	2,644,021	25,768,810	na	na

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Centers for Disease Control and Prevention	565,368	89,675	460,691	15,002	na	na
Centers for Medicare and Medicaid Services	419,105	419,105	0	0	na	na
Food and Drug Administration	560,910	0	560,910	0	na	na
Health Resources and Services Administration	40,495	2,455	32,429	5,610	na	na
National Institutes of Health	43,588,544	21,899,274	21,689,271	0	na	na
Office of the Secretary of Health and Human Services	35,517	0	35,517	0	na	na
Office of the Assistant Secretary for Planning and Evaluation	35,517	0	35,517	0	na	na
Department of Homeland Security	570,524	69,204	258,612	242,709	na	na
Coast Guard	7,476	0	2,243	5,233	na	na
Countering Weapons of Mass Destruction Office	65,709	8,720	26,159	30,831	na	na
Cybersecurity and Infrastructure Security Agency	5,616	0	3,440	2,176	na	na
Science and Technology Directorate	490,781	60,235	226,771	203,776	na	na
Secret Service	942	250	0	692	na	na
Transportation Security Administration	*	0	*	*	na	na
Department of the Interior	940,042	93,945	691,384	154,714	na	na
Bureau of Indian Affairs	5,000	0	5,000	0	na	na
Bureau of Land Management	12,049	2,004	8,579	1,466	na	na
Bureau of Ocean Energy Management	85,745	0	66,305	19,440	na	na
Bureau of Reclamation	27,723	0	17,705	10,018	na	na
Bureau of Safety and Environmental Enforcement	8,776	1,286	4,770	2,720	na	na
Fish and Wildlife Service	35,000	0	35,000	0	na	na
Geological Survey	737,395	90,655	526,802	119,938	na	na
National Park Service	28,354	0	27,222	1,132	na	na
Department of Justice	111,184	16,931	86,014	8,240	na	na
Bureau of Prisons	5	0	2	3	na	na
Federal Bureau of Investigation	8,887	0	8,887	0	na	na
Office of Justice Programs	102,292	16,931	77,125	8,236	na	na
Department of Labor	3,698	0	3,698	0	na	na
Employee Benefits Security Administration	1,910	0	1,910	0	na	na
Occupational Safety and Health Administration	1,788	0	1,788	0	na	na
Department of State	65,000	7,000	38,000	20,000	na	na
Department of Transportation	1,073,354	2,117	806,251	264,985	na	na
Federal Aviation Administration	477,513	0	260,969	216,544	na	na
Federal Highway Administration	382,519	0	341,879	40,640	na	na
Federal Motor Carrier Safety Administration	23,772	0	21,154	2,618	na	na
Federal Railroad Administration	36,282	0	32,291	3,991	na	na
Federal Transit Administration	13,102	0	11,909	1,192	na	na
National Highway Traffic Safety Administration	91,739	0	91,739	0	na	na
Office of the Secretary of Transportation	24,389	21	24,368	0	na	na
Pipeline and Hazardous Materials Safety Administration	24,038	2,096	21,942	0	na	na
Department of the Treasury	47,481	0	37,082	10,399	na	na
Bureau of Engraving and Printing	47,481	0	37,082	10,399	na	na
Department of Veterans Affairs	1,696,494	665,094	940,865	90,535	na	na

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Other agencies						
Administrative Office of the U.S. Courts	1,443	0	1,443	0	na	na
Agency for Global Media	8,413	0	8,413	0	na	na
Agency for International Development	220,614	0	152,853	67,761	na	na
Appalachian Regional Commission	804	0	804	0	na	na
Consumer Product Safety Commission	165	0	165	0	na	na
Environmental Protection Agency	525,457	0	406,371	119,086	na	na
Federal Trade Commission	2,713	0	2,713	0	na	na
Library of Congress	3,055	0	512	2,543	na	na
National Aeronautics and Space Administration	11,623,146	5,057,913	2,246,909	4,318,325	na	na
National Science Foundation	6,896,067	5,863,175	1,032,892	0	na	na
Nuclear Regulatory Commission	61,399	0	61,399	0	na	na
Patient-Centered Outcomes Research Trust Fund	521,671	0	521,671	0	na	na
Postal Service	13,860	0	13,860	0	na	na
RESTORE Act Centers of Excellence Research Grants Program	6,960	0	6,960	0	na	na
Smithsonian Institution	227,400	227,400	0	0	na	na
Social Security Administration	78,704	0	78,704	0	na	na
Tennessee Valley Authority	28,254	0	11,752	16,502	na	na

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

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. FY 2022 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 2022–23.