

TABLE 6

Preliminary federal obligations for research and experimental development, by agency and type of R&D: FY 2023

(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Experimental development		
				Total	Advanced technology	Major systems
All agencies	186,447,980	48,467,014	51,013,890	86,967,076	13,252,966	63,678,608
Departments						
Department of Agriculture	3,487,453	1,602,692	1,618,507	266,254	na	na
Agricultural Marketing Service	9,455	0	9,455	0	na	na
Agricultural Research Service	1,858,000	929,000	743,200	185,800	na	na
Animal and Plant Health Inspection Service	48,801	26,244	0	22,557	na	na
Economic Research Service	92,612	0	92,612	0	na	na
Forest Service	307,000	88,125	165,989	52,885	na	na
National Agricultural Statistics Service	11,387	0	6,376	5,011	na	na
National Institute of Food and Agriculture	1,144,522	543,648	600,874	0	na	na
Natural Resources Conservation Service	15,675	15,675	0	0	na	na
Department of Commerce	2,805,154	311,154	1,755,115	738,885	na	na
Census Bureau	312,229	0	222,038	90,191	na	na
National Institute of Standards and Technology	1,364,475	311,154	605,126	448,195	na	na
National Oceanic and Atmospheric Administration	1,115,850	0	915,351	200,499	na	na
National Telecommunications and Information Administration	12,600	0	12,600	0	na	na
Department of Defense	88,864,613	3,541,126	8,391,914	76,931,574	13,252,966	63,678,608
Defense Advanced Research Projects Agency	4,190,647	517,425	1,677,011	1,996,211	1,839,810	156,401
Defense Health Agency	2,561,708	13,518	164,749	2,383,440	2,106,660	276,781
Department of the Air Force	15,883,030	994,200	2,032,976	12,855,854	1,003,256	11,852,598
Department of the Army	15,518,400	620,430	1,775,695	13,122,276	2,463,948	10,658,328
Department of the Navy	22,081,518	879,264	1,475,266	19,726,988	1,209,055	18,517,933
Space Force	8,626,390	55,037	101,354	8,470,000	430,330	8,039,670
Other defense agencies	20,002,920	461,252	1,164,863	18,376,805	4,199,907	14,176,898
Department of Education	354,214	27,867	235,979	90,367	na	na
Department of Energy	15,106,028	6,523,381	5,785,748	2,796,899	na	na
Advanced Research Projects Agency—Energy	470,000	0	235,000	235,000	na	na
Electricity Delivery and Energy Reliability	155,790	12,530	62,350	80,910	na	na
Energy Efficiency and Renewable Energy	1,761,696	0	724,182	1,037,514	na	na
Environmental Management	43,000	0	14,190	28,810	na	na
Fossil Energy	938,163	0	938,163	0	na	na
National Nuclear Security Administration	4,181,766	123,694	2,864,740	1,193,331	na	na
Defense Programs	2,938,346	0	2,554,182	384,164	na	na
Naval Nuclear Propulsion Program	841,473	0	141,400	700,073	na	na
Office of Defense Nuclear Nonproliferation	401,947	123,694	169,158	109,095	na	na
Nuclear Energy	1,118,026	0	913,953	204,073	na	na
Office of Cybersecurity, Energy Security, and Emergency Response	62,750	12,320	33,170	17,260	na	na
Office of Science	6,374,837	6,374,837	0	0	na	na
Department of Health and Human Services	49,270,146	23,787,817	25,426,706	55,624	na	na
Administration for Children and Families	9,405	0	9,405	0	na	na
Administration for Community Living	112,862	0	112,862	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	11,777	0	11,777	0	na	na
Biomedical Advanced Research and Development Authority	817,834	0	817,834	0	na	na

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Centers for Disease Control and Prevention	458,625	82,950	360,652	15,023	na	na
Centers for Medicare and Medicaid Services	427,487	427,487	0	0	na	na
Food and Drug Administration	629,764	0	629,764	0	na	na
Health Resources and Services Administration	50,043	2,455	43,043	4,545	na	na
National Institutes of Health	46,340,849	23,274,924	23,065,925	0	na	na
Office of the Secretary of Health and Human Services	38,000	0	38,000	0	na	na
Office of the Assistant Secretary for Planning and Evaluation	38,000	0	38,000	0	na	na
Department of Homeland Security	543,944	69,501	169,286	305,157	na	na
Coast Guard	7,476	0	2,243	5,233	na	na
Countering Weapons of Mass Destruction Office	64,615	9,251	29,753	25,611	na	na
Cybersecurity and Infrastructure Security Agency	8,828	0	4,290	4,538	na	na
Science and Technology Directorate	459,000	60,000	133,000	266,000	na	na
Secret Service	4,025	250	0	3,775	na	na
Transportation Security Administration	*	0	0	*	na	na
Department of the Interior	1,043,599	101,215	776,253	166,131	na	na
Bureau of Indian Affairs	5,000	0	5,000	0	na	na
Bureau of Land Management	13,314	1,587	11,472	255	na	na
Bureau of Ocean Energy Management	88,292	0	71,666	16,626	na	na
Bureau of Reclamation	43,975	0	27,922	16,053	na	na
Bureau of Safety and Environmental Enforcement	17,253	1,000	14,003	2,250	na	na
Fish and Wildlife Service	44,411	0	44,411	0	na	na
Geological Survey	803,000	98,628	574,557	129,815	na	na
National Park Service	28,354	0	27,222	1,132	na	na
Department of Justice	138,873	15,615	108,750	14,508	na	na
Bureau of Prisons	5	0	1	3	na	na
Federal Bureau of Investigation	20,549	0	20,549	0	na	na
Office of Justice Programs	118,319	15,615	88,199	14,505	na	na
Department of Labor	4,066	0	4,066	0	na	na
Employee Benefits Security Administration	2,244	0	2,244	0	na	na
Occupational Safety and Health Administration	1,822	0	1,822	0	na	na
Department of State	60,000	2,000	38,000	20,000	na	na
Department of Transportation	1,226,219	3,753	956,551	265,915	na	na
Federal Aviation Administration	486,135	0	255,833	230,302	na	na
Federal Highway Administration	462,724	0	435,999	26,725	na	na
Federal Motor Carrier Safety Administration	15,000	0	12,000	3,000	na	na
Federal Railroad Administration	44,438	0	39,550	4,888	na	na
Federal Transit Administration	49,000	0	48,000	1,000	na	na
National Highway Traffic Safety Administration	95,500	0	95,500	0	na	na
Office of the Secretary of Transportation	51,443	37	51,406	0	na	na
Pipeline and Hazardous Materials Safety Administration	21,979	3,716	18,263	0	na	na
Department of the Treasury	72,144	0	48,012	24,132	na	na
Bureau of Engraving and Printing	72,144	0	48,012	24,132	na	na
Department of Veterans Affairs	1,929,506	760,629	1,076,012	92,865	na	na

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Other agencies						
Agency for Global Media	7,917	0	7,917	0	na	na
Agency for International Development	220,614	0	152,853	67,761	na	na
Appalachian Regional Commission	827	0	827	0	na	na
Consumer Product Safety Commission	374	0	374	0	na	na
Environmental Protection Agency	572,136	0	444,513	127,623	na	na
Federal Trade Commission	10,465	0	10,465	0	na	na
Library of Congress	3,164	0	495	2,669	na	na
National Aeronautics and Space Administration	11,750,009	5,089,938	1,740,762	4,919,309	na	na
National Science Foundation	7,854,096	6,388,325	1,465,771	0	na	na
Nuclear Regulatory Commission	82,729	0	82,729	0	na	na
Patient-Centered Outcomes Research Trust Fund	560,397	0	560,397	0	na	na
Postal Service	13,620	0	13,620	0	na	na
RESTORE Act Centers of Excellence Research Grants Program	22,996	0	22,996	0	na	na
Smithsonian Institution	242,000	242,000	0	0	na	na
Social Security Administration	106,316	0	106,316	0	na	na
Tennessee Valley Authority	94,358	0	12,955	81,403	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. 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.