

TABLE 5

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	186,416,750	47,335,244	54,272,792	84,808,714	12,173,355	62,138,763
Departments						
Department of Agriculture	3,528,906	1,597,892	1,626,818	304,196	na	na
Agricultural Marketing Service	13,277	0	6,638	6,638	na	na
Agricultural Research Service	1,744,238	872,119	697,695	174,424	na	na
Animal and Plant Health Inspection Service	47,793	25,463	0	22,329	na	na
Economic Research Service	92,612	0	92,612	0	na	na
Forest Service	349,783	88,125	165,989	95,668	na	na
National Agricultural Statistics Service	11,392	0	6,255	5,137	na	na
National Institute of Food and Agriculture	1,248,935	601,645	647,290	0	na	na
Natural Resources Conservation Service	20,877	10,540	10,338	0	na	na
Department of Commerce	2,348,431	302,271	1,577,140	469,020	na	na
Census Bureau	284,409	0	151,257	133,152	na	na
National Institute of Standards and Technology	898,366	302,271	506,470	89,625	na	na
National Oceanic and Atmospheric Administration	1,149,332	0	908,572	240,760	na	na
National Telecommunications and Information Administration	16,324	0	10,842	5,482	na	na
Department of Defense	85,890,064	3,823,104	7,754,842	74,312,118	12,173,355	62,138,763
Defense Advanced Research Projects Agency	3,779,315	464,147	1,443,608	1,871,560	1,634,182	237,378
Defense Health Agency	2,738,290	48,648	261,212	2,428,431	2,039,721	388,709
Department of the Air Force	15,848,311	1,388,310	2,226,244	12,233,757	1,408,827	10,824,929
Department of the Army	14,469,601	601,994	1,563,200	12,304,407	1,724,030	10,580,377
Department of the Navy	21,301,774	717,920	1,227,708	19,356,146	1,144,414	18,211,732
Space Force	8,215,715	0	0	8,215,715	415,316	7,800,399
Other defense agencies	19,537,058	602,084	1,032,870	17,902,103	3,806,864	14,095,239
Department of Education	371,909	31,872	251,072	88,965	na	na
Department of Energy	16,145,031	6,469,860	6,103,837	3,571,335	na	na
Advanced Research Projects Agency—Energy	470,529	0	235,264	235,264	na	na
Electricity Delivery and Energy Reliability	138,570	6,752	54,704	77,114	na	na
Energy Efficiency and Renewable Energy	2,932,813	0	1,232,081	1,700,732	na	na
Environmental Management	37,118	0	12,249	24,869	na	na
Fossil Energy	1,012,156	0	1,012,156	0	na	na
National Nuclear Security Administration	4,077,809	123,858	2,664,021	1,289,930	na	na
Defense Programs	2,831,562	0	2,358,963	472,600	na	na
Naval Nuclear Propulsion Program	841,473	0	141,400	700,073	na	na
Office of Defense Nuclear Nonproliferation	404,773	123,858	163,659	117,257	na	na
Nuclear Energy	836,430	0	636,181	200,248	na	na
Office of Cybersecurity, Energy Security, and Emergency Response	148,888	26,800	78,911	43,178	na	na
Office of Science	6,490,719	6,312,450	178,269	0	na	na
Department of Health and Human Services	52,527,927	22,737,627	29,743,665	46,635	na	na
Administration for Children and Families	6,766	0	6,766	0	na	na
Administration for Community Living	112,533	0	112,533	0	na	na
Advanced Research Projects Agency for Health	794,246	0	794,246	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	18,556	0	18,556	0	na	na

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Biomedical Advanced Research and Development Authority	5,913,137	0	5,913,137	0	na	na
Centers for Disease Control and Prevention	454,472	87,037	356,855	10,580	na	na
Centers for Medicare and Medicaid Services	34,924	34,924	0	0	na	na
Food and Drug Administration	710,003	0	710,003	0	na	na
Health Resources and Services Administration	81,132	34,441	46,691	0	na	na
National Institutes of Health	43,994,460	22,581,225	21,413,235	0	na	na
Office of the Secretary of Health and Human Services	34,196	0	34,196	0	na	na
Office of the Assistant Secretary for Planning and Evaluation	34,196	0	34,196	0	na	na
Department of Homeland Security	648,171	76,466	179,781	391,923	na	na
Coast Guard	7,476	2,243	5,233	0	na	na
Countering Weapons of Mass Destruction Office	66,835	12,171	26,280	28,385	na	na
Cybersecurity and Infrastructure Security Agency	7,633	0	3,071	4,563	na	na
Science and Technology Directorate	530,417	61,803	145,198	323,416	na	na
Secret Service	3,810	250	0	3,560	na	na
Transportation Security Administration	32,000	0	0	32,000	na	na
Department of the Interior	515,630	44,230	430,468	40,932	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 Reclamation	31,975	0	27,922	4,053	na	na
Bureau of Safety and Environmental Enforcement	10,094	826	6,345	2,923	na	na
Fish and Wildlife Service	41,000	0	41,000	0	na	na
Geological Survey	409,227	41,817	333,709	33,701	na	na
National Park Service	5,020	0	5,020	0	na	na
Department of Justice	114,648	17,392	84,733	12,523	na	na
Bureau of Prisons	13	0	2	11	na	na
Federal Bureau of Investigation	6,315	0	6,315	0	na	na
Office of Justice Programs	108,320	17,392	78,416	12,511	na	na
Department of Labor	1,898	0	1,898	0	na	na
Employee Benefits Security Administration	1,898	0	1,898	0	na	na
Department of State	56,444	6,079	32,998	17,367	na	na
Department of Transportation	1,172,998	37,603	867,787	267,608	na	na
Federal Aviation Administration	439,148	0	231,338	207,809	na	na
Federal Highway Administration	434,684	0	392,264	42,420	na	na
Federal Motor Carrier Safety Administration	15,732	848	9,241	5,642	na	na
Federal Railroad Administration	49,834	0	45,847	3,987	na	na
Federal Transit Administration	8,155	0	6,034	2,120	na	na
National Highway Traffic Safety Administration	93,330	0	93,330	0	na	na
Office of the Secretary of Transportation	93,822	36,543	57,279	0	na	na
Pipeline and Hazardous Materials Safety Administration	38,295	211	32,453	5,630	na	na
Department of the Treasury	52,769	0	0	52,769	na	na
Bureau of Engraving and Printing	51,809	0	0	51,809	na	na
Mint	960	0	0	960	na	na
Department of Veterans Affairs	1,915,858	842,419	1,037,658	35,781	na	na

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Other agencies						
Agency for Global Media	9,076	0	9,076	0	na	na
Agency for International Development	251,678	2,909	196,662	52,106	na	na
Appalachian Regional Commission	1,541	0	1,541	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	3,133	0	3,133	0	na	na
Library of Congress	3,004	0	495	2,509	na	na
National Aeronautics and Space Administration	11,715,201	4,798,144	1,994,754	4,922,303	na	na
National Science Foundation	7,490,087	6,305,376	1,184,712	0	na	na
Nuclear Regulatory Commission	47,200	0	47,200	0	na	na
Patient-Centered Outcomes Research Trust Fund	553,441	0	553,441	0	na	na
Postal Service	6,923	0	6,923	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	96,274	0	96,274	0	na	na
Tennessee Valley Authority	111,000	0	18,000	93,000	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. 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 2023–24.