

TABLE 36

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

(Dollars in thousands)

Agency	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
All agencies	103,907,229	54,900,563	4,262,632	39,434,956	2,739,770	2,225,159	78,836	265,314
Departments								
Department of Agriculture	236,858	205,234	0	*	28,830	1,824	272	657
Agricultural Marketing Service	6,663	3,629	0	*	2,509	212	250	*
Agricultural Research Service	151,040	130,034	0	0	19,006	1,344	*	634
Animal and Plant Health Inspection Service	20,880	14,647	0	0	6,233	0	0	0
Forest Service	53,038	53,038	0	0	0	0	0	0
National Agricultural Statistics Service	4,337	3,886	0	0	182	268	0	0
Natural Resources Conservation Service	900	0	0	0	900	0	0	0
Department of Commerce	307,003	158,253	785	2,589	144,134	329	911	*
Census Bureau	52,744	52,744	0	0	0	0	0	0
National Institute of Standards and Technology	100,940	9,040	0	*	91,900	0	0	0
National Oceanic and Atmospheric Administration	153,319	96,469	785	2,589	52,234	329	911	*
Department of Defense, total experimental development	60,971,497	21,954,895	2,383,568	33,286,909	2,003,619	1,126,956	9,247	206,302
Defense Advanced Research Projects Agency	1,760,568	181,514	29,315	1,470,454	62,804	16,482	0	0
Defense Health Agency	2,719,158	1,011,576	3,015	318,474	720,054	605,542	0	60,496
Department of the Air Force	10,003,295	3,793,060	488,108	5,547,110	146,439	28,368	210	0
Department of the Army	10,007,091	4,498,777	95,006	5,071,179	121,795	183,180	0	37,155
Department of the Navy	15,079,522	6,484,874	174,614	7,811,151	442,748	138,752	*	27,334
Space Force	5,243,308	227,974	247,162	4,725,137	31,943	4,814	6,278	0
Other defense agencies	16,158,554	5,757,121	1,346,347	8,343,405	477,836	149,819	2,709	81,317
Department of Defense, advanced technology	9,240,810	2,683,395	237,681	4,302,609	1,099,780	791,205	1,950	124,192
Defense Advanced Research Projects Agency	1,576,059	112,506	29,315	1,354,976	62,804	16,459	0	0
Defense Health Agency	1,530,781	77,441	2,522	189,661	685,329	518,368	0	57,460
Department of the Air Force	1,055,245	214,878	10,381	770,576	53,410	5,791	210	0
Department of the Army	1,841,577	934,968	29,251	768,770	72,634	34,311	0	1,642
Department of the Navy	871,188	291,076	8,315	383,463	93,826	93,845	0	664
Other defense agencies	2,365,960	1,052,526	157,897	835,163	131,777	122,431	1,740	64,426
Department of Defense, major systems	51,730,686	19,271,500	2,145,887	28,984,301	903,839	335,751	7,297	82,111

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Defense Advanced Research Projects Agency	184,509	69,008	0	115,478	0	*	0	0
Defense Health Agency	1,188,377	934,136	493	128,813	34,725	87,174	0	3,036
Department of the Air Force	8,948,050	3,578,182	477,728	4,776,534	93,029	22,577	0	0
Department of the Army	8,165,514	3,563,809	65,754	4,302,409	49,161	148,869	0	35,513
Department of the Navy	14,208,334	6,193,798	166,299	7,427,688	348,922	44,907	*	26,671
Space Force	5,243,308	227,974	247,162	4,725,137	31,943	4,814	6,278	0
Other defense agencies	13,792,594	4,704,594	1,188,450	7,508,242	346,059	27,388	969	16,891
Department of Education	101,327	0	0	14,450	42,146	25,456	19,275	0
Department of Energy	2,676,001	93,382	805,727	1,517,021	207,867	41,037	10,817	151
Advanced Research Projects Agency—Energy	157,363	530	17,671	81,691	53,383	4,088	0	0
Electricity Delivery and Energy Reliability	66,567	1,524	47,901	7,715	4,566	4,653	206	0
Energy Efficiency and Renewable Energy	718,556	0	338,476	203,837	134,400	31,232	10,610	0
Environmental Management	20,105	*	16,754	0	3,350	0	0	0
National Nuclear Security Administration	1,605,187	90,647	337,082	1,177,247	210	0	0	0
Defense Programs	375,201	40,590	256,470	78,107	*	0	0	0
Naval Nuclear Propulsion Program	1,140,270	48,600	1,002	1,090,668	0	0	0	0
Office of Defense Nuclear Nonproliferation	89,715	1,458	79,611	8,472	175	0	0	0
Nuclear Energy	108,224	679	47,841	46,531	11,957	1,064	0	151
Department of Health and Human Services	33,932,925	31,422,108	0	2,108,117	14,066	382,853	0	5,781
Agency for Healthcare Research and Quality	29,855	29,855	0	0	0	0	0	0
Biomedical Advanced Research and Development Authority	33,881,017	31,383,819	0	2,104,536	11,314	375,567	0	5,781
Centers for Disease Control and Prevention	14,053	8,433	0	3,581	1,252	786	0	0
Health Resources and Services Administration	8,000	0	0	0	1,500	6,500	0	0
Department of Homeland Security	291,022	99,452	51,866	115,195	13,498	3,863	3,063	4,085
Coast Guard	7,281	0	0	7,281	0	0	0	0
Countering Weapons of Mass Destruction Office	11,062	2,356	5,720	2,172	664	0	0	150
Cybersecurity and Infrastructure Security Agency	3,498	0	0	0	0	3,498	0	0

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Science and Technology Directorate	240,186	68,102	46,146	105,741	12,834	365	3,063	3,935
Secret Service	994	994	0	0	0	0	0	0
Transportation Security Administration	28,000	28,000	0	0	0	0	0	0
Department of the Interior	148,280	127,332	0	2,616	14,778	1,461	2,090	*
Bureau of Land Management	930	274	0	*	470	153	*	0
Bureau of Ocean Energy Management	14,200	12,113	0	1,519	60	77	428	*
Bureau of Reclamation	20,000	12,853	0	761	6,386	0	0	0
Bureau of Safety and Environmental Enforcement	238	*	0	*	208	0	0	0
Geological Survey	111,780	101,387	0	303	7,207	1,231	1,652	0
National Park Service	1,132	685	0	0	447	0	0	0
Department of Justice	6,102	1,148	0	72	2,985	1,644	253	0
Bureau of Prisons	*	0	0	0	0	0	*	0
Office of Justice Programs	6,096	1,148	0	72	2,985	1,644	247	0
Department of State	20,000	20,000	0	0	0	0	0	0
Department of Transportation	285,241	27,857	80,664	135,642	5,388	2,955	32,494	241
Federal Aviation Administration	240,240	21,840	80,624	133,737	3,365	481	0	192
Federal Highway Administration	36,605	4,162	0	0	0	0	32,443	0
Federal Motor Carrier Safety Administration	468	268	0	0	200	0	0	0
Federal Railroad Administration	7,177	1,586	*	1,905	1,070	2,474	51	*
Federal Transit Administration	752	0	0	0	752	0	0	0
Department of the Treasury	7,539	155	0	6,393	0	0	0	991
Bureau of Engraving and Printing	7,384	0	0	6,393	0	0	0	991
Mint	155	155	0	0	0	0	0	0
Department of Veterans Affairs	137,285	48,060	89,225	0	0	0	0	0
Other agencies								
Agency for International Development	30,487	3,200	0	1,712	12,075	3,000	0	10,500
Environmental Protection Agency	116,994	59,456	0	57,538	0	0	0	0
Library of Congress	2,177	2,177	0	0	0	0	0	0
National Aeronautics and Space Administration	4,625,310	677,855	850,797	2,182,236	246,965	630,444	413	36,601
Nuclear Regulatory Commission	3,418	0	0	0	3,418	0	0	0
Tennessee Valley Authority	7,763	0	0	4,425	0	3,338	0	0

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

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. 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.