

TABLE 36

Federal obligations for experimental development, by agency and performer: FY 2022

(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	96,614,768	50,128,755	4,248,099	37,525,513	3,109,857	1,338,144	62,184	202,216
Departments								
Department of Agriculture	275,287	241,717	0	0	30,473	2,477	9	610
Agricultural Research Service	165,057	139,188	0	0	23,030	2,220	9	610
Animal and Plant Health Inspection Service	21,194	14,039	0	0	7,155	0	0	0
Forest Service	83,850	83,850	0	0	0	0	0	0
National Agricultural Statistics Service	4,944	4,639	0	0	47	257	0	0
Natural Resources Conservation Service	241	0	0	0	241	0	0	0
Department of Commerce	321,077	161,317	1,230	49,155	94,591	14,150	630	3
Census Bureau	51,488	51,488	0	0	0	0	0	0
National Institute of Standards and Technology	82,083	12,175	0	32,557	24,248	13,104	0	0
National Oceanic and Atmospheric Administration	187,505	97,654	1,230	16,599	70,343	1,047	630	3
Department of Defense, total experimental development	62,185,981	22,902,790	2,156,475	33,631,063	2,143,238	1,166,514	8,210	177,691
Defense Advanced Research Projects Agency	1,810,599	200,809	55,533	1,432,017	107,476	10,547	0	4,217
Defense Health Agency	1,990,983	124,413	7,660	405,137	831,735	564,703	0	57,335
Department of the Air Force	10,972,525	5,097,039	516,803	5,069,548	178,763	110,372	0	0
Department of the Army	10,255,864	3,924,076	114,529	5,708,750	188,654	287,555	2	32,299
Department of the Navy	15,749,004	6,885,212	191,531	8,061,065	459,451	132,304	195	19,248
Space Force	4,775,577	308,800	263,868	4,151,493	30,799	14,508	6,107	0
Other defense agencies	16,631,430	6,362,442	1,006,551	8,803,053	346,359	46,526	1,906	64,592
Department of Defense, advanced technology	10,138,394	3,427,616	591,558	3,873,681	1,302,518	807,159	1,879	133,984
Defense Advanced Research Projects Agency	1,574,470	127,900	55,533	1,269,296	107,464	10,060	0	4,217
Defense Health Agency	1,723,906	95,918	6,795	212,453	818,090	533,315	0	57,335
Department of the Air Force	951,735	814,298	1,730	60,243	30,046	45,419	0	0
Department of the Army	1,821,172	669,549	19,739	920,985	103,332	97,884	0	9,681
Department of the Navy	903,941	310,742	8,529	394,735	100,771	88,082	0	1,083
Other defense agencies	3,163,170	1,409,209	499,230	1,015,969	142,815	32,399	1,879	61,668
Department of Defense, major systems	52,047,587	19,475,174	1,564,918	29,757,382	840,720	359,355	6,331	43,707
Defense Advanced Research Projects Agency	236,129	72,909	0	162,721	12	487	0	0
Defense Health Agency	267,077	28,495	865	192,684	13,645	31,388	0	0

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Department of the Air Force	10,020,790	4,282,741	515,073	5,009,306	148,717	64,953	0	0
Department of the Army	8,434,692	3,254,526	94,789	4,787,764	85,322	189,670	2	22,618
Department of the Navy	14,845,063	6,574,470	183,002	7,666,330	358,680	44,222	195	18,164
Space Force	4,775,577	308,800	263,868	4,151,493	30,799	14,508	6,107	0
Other defense agencies	13,468,260	4,953,233	507,321	7,787,084	203,544	14,126	28	2,924
Department of Education	102,437	0	0	13,650	43,452	33,447	11,887	0
Department of Energy	2,588,711	163,229	1,119,044	1,037,613	208,107	57,587	2,430	702
Advanced Research Projects Agency—Energy	201,482	937	24,650	94,950	73,287	7,659	0	0
Electricity Delivery and Energy Reliability	52,512	1,203	37,788	6,086	3,602	3,671	163	0
Energy Efficiency and Renewable Energy	931,357	8,966	576,668	176,683	120,741	46,035	2,264	0
Environmental Management	23,973	0	19,493	4,312	0	168	0	0
National Nuclear Security Administration	1,217,262	147,257	388,570	680,074	1,360	0	0	0
Defense Programs	500,653	88,636	300,763	111,244	10	0	0	0
Naval Nuclear Propulsion Program	616,255	55,579	0	559,326	1,350	0	0	0
Office of Defense Nuclear Nonproliferation	100,354	3,043	87,807	9,504	0	0	0	0
Nuclear Energy	146,754	4,867	65,271	75,508	348	55	3	702
Office of Cybersecurity, Energy Security, and Emergency Response	15,372	0	6,604	0	8,768	0	0	0
Department of Health and Human Services	25,825,478	25,809,556	0	6,287	2,215	7,103	0	317
Agency for Healthcare Research and Quality	36,055	36,055	0	0	0	0	0	0
Biomedical Advanced Research and Development Authority	25,768,810	25,768,610	0	100	100	0	0	0
Centers for Disease Control and Prevention	15,002	4,890	0	6,187	1,222	2,386	0	317
Health Resources and Services Administration	5,610	0	0	0	893	4,717	0	0
Department of Homeland Security	242,709	108,607	22,759	86,713	6,441	16,938	80	1,171
Coast Guard	5,233	0	0	5,233	0	0	0	0
Countering Weapons of Mass Destruction Office	30,831	2,000	13,600	15,231	0	0	0	0
Cybersecurity and Infrastructure Security Agency	2,176	0	0	0	0	2,176	0	0
Science and Technology Directorate	203,776	106,087	9,159	66,077	6,441	14,762	80	1,171
Secret Service	692	521	0	171	0	0	0	0

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		Federal agencies ^a	FFRDCs	United States and U.S. territories				
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Transportation Security Administration	*	0	*	*	0	0	0	0
Department of the Interior	154,714	134,141	49	6,081	12,309	946	1,188	0
Bureau of Land Management	1,466	762	49	0	401	244	10	0
Bureau of Ocean Energy Management	19,440	14,838	0	4,387	170	45	0	0
Bureau of Reclamation	10,018	6,438	0	381	3,199	0	0	0
Bureau of Safety and Environmental Enforcement	2,720	194	0	1,100	1,101	325	0	0
Geological Survey	119,938	111,223	0	213	6,991	332	1,178	0
National Park Service	1,132	685	0	0	447	0	0	0
Department of Justice	8,240	603	0	2,920	913	3,661	142	0
Bureau of Prisons	3	3	0	0	0	0	0	0
Office of Justice Programs	8,236	600	0	2,920	913	3,661	142	0
Department of State	20,000	20,000	0	0	0	0	0	0
Department of Transportation	264,985	28,804	72,672	121,504	3,856	974	37,002	173
Federal Aviation Administration	216,544	19,686	72,672	119,875	3,033	433	671	173
Federal Highway Administration	40,640	4,309	0	0	0	0	36,331	0
Federal Motor Carrier Safety Administration	2,618	2,618	0	0	0	0	0	0
Federal Railroad Administration	3,991	999	0	1,629	822	541	0	0
Federal Transit Administration	1,192	1,192	0	0	0	0	0	0
Department of the Treasury	10,399	0	0	3,994	0	0	0	6,405
Bureau of Engraving and Printing	10,399	0	0	3,994	0	0	0	6,405
Department of Veterans Affairs	90,535	16,222	74,313	0	0	0	0	0
Other agencies								
Agency for International Development	67,761	4,189	0	11,051	20,782	23,444	0	8,294
Environmental Protection Agency	119,086	61,856	0	57,230	0	0	0	0
Library of Congress	2,543	2,543	0	0	0	0	0	0
National Aeronautics and Space Administration	4,318,325	473,181	801,557	2,485,546	543,480	7,106	606	6,849
Tennessee Valley Authority	16,502	0	0	12,707	0	3,795	0	0

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

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. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. Federal intramural amounts for the Biomedical Advanced Research and Development Authority are transfers to the other agencies in support of Operation Warp Speed. 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.