

TABLE 63

Department of Defense obligations for research, development, test, and evaluation, by state or location, agency, and performer: FY 2021

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Alabama							
Department of Defense, RDT&E	3,470,122	2,107,421	0	1,312,154	35,544	14,769	235
Department of Defense, research	3,176,525	1,939,297	0	1,197,377	25,948	13,668	235
Department of Defense, operational systems development ^c	293,598	168,124	0	114,777	9,596	1,101	0
Alaska							
Department of Defense, RDT&E	133,557	45,154	0	76,350	9,362	2,691	0
Department of Defense, research	120,996	45,120	0	64,026	9,159	2,691	0
Department of Defense, operational systems development ^c	12,561	*	0	12,325	203	0	0
Arizona							
Department of Defense, RDT&E	1,285,932	183,528	0	1,031,536	63,828	761	6,278
Department of Defense, research	907,603	100,703	0	736,032	63,828	761	6,278
Department of Defense, operational systems development ^c	378,330	82,826	0	295,504	0	0	0
Arkansas							
Department of Defense, RDT&E	102,776	19,433	0	66,596	15,654	1,092	0
Department of Defense, research	102,354	19,093	0	66,515	15,654	1,092	0
Department of Defense, operational systems development ^c	422	340	0	81	0	0	0
California							
Department of Defense, RDT&E	11,868,717	2,752,290	1,147,219	7,257,881	574,836	134,616	1,875
Department of Defense, research	10,160,653	2,432,406	682,659	6,336,258	574,215	133,239	1,875
Department of Defense, operational systems development ^c	1,708,064	319,884	464,559	921,623	621	1,377	0
Colorado							
Department of Defense, RDT&E	3,653,598	58,931	4,914	3,523,830	60,918	4,999	*
Department of Defense, research	3,061,893	56,210	4,914	2,934,845	60,918	4,999	*
Department of Defense, operational systems development ^c	591,705	2,721	0	588,985	0	0	0
Connecticut							
Department of Defense, RDT&E	1,759,210	74,962	0	1,626,651	54,632	2,965	0
Department of Defense, research	1,534,943	73,759	0	1,403,586	54,632	2,965	0
Department of Defense, operational systems development ^c	224,268	1,202	0	223,066	0	0	0
Delaware							
Department of Defense, RDT&E	48,340	458	5,271	18,257	23,950	403	0
Department of Defense, research	48,096	458	5,271	18,013	23,950	403	0
Department of Defense, operational systems development ^c	244	0	0	244	0	0	0
District of Columbia							
Department of Defense, RDT&E	4,094,774	3,203,859	4,383	664,829	43,923	177,780	0

TABLE 63

Department of Defense obligations for research, development, test, and evaluation, by state or location, agency, and performer: FY 2021

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Defense, research	2,936,657	2,109,668	542	609,602	43,923	172,923	0
Department of Defense, operational systems development ^c	1,158,117	1,094,191	3,841	55,228	0	4,857	0
Florida							
Department of Defense, RDT&E	2,939,985	848,313	9,988	1,905,530	115,730	60,174	250
Department of Defense, research	2,574,591	725,989	9,988	1,676,295	115,722	46,347	250
Department of Defense, operational systems development ^c	365,394	122,323	0	229,236	*	13,827	0
Georgia							
Department of Defense, RDT&E	676,842	247,753	1,227	223,986	201,637	2,239	0
Department of Defense, research	435,233	139,192	1,227	120,598	173,373	844	0
Department of Defense, operational systems development ^c	241,609	108,561	0	103,388	28,264	1,395	0
Hawaii							
Department of Defense, RDT&E	309,197	178,748	0	80,239	36,312	13,898	0
Department of Defense, research	304,728	176,409	0	79,829	34,592	13,898	0
Department of Defense, operational systems development ^c	4,469	2,339	0	410	1,720	0	0
Idaho							
Department of Defense, RDT&E	57,364	15,090	21,337	19,589	1,067	155	125
Department of Defense, research	52,410	15,090	18,737	17,235	1,067	155	125
Department of Defense, operational systems development ^c	4,954	0	2,600	2,354	0	0	0
Illinois							
Department of Defense, RDT&E	827,191	173,436	2,241	493,904	150,970	6,640	0
Department of Defense, research	738,833	118,667	2,241	460,315	150,970	6,640	0
Department of Defense, operational systems development ^c	88,358	54,769	0	33,589	0	0	0
Indiana							
Department of Defense, RDT&E	466,096	208,996	0	150,262	105,955	882	*
Department of Defense, research	394,631	151,987	0	136,748	105,012	882	*
Department of Defense, operational systems development ^c	71,465	57,008	0	13,514	943	0	0
Iowa							
Department of Defense, RDT&E	233,971	2,724	*	211,427	19,651	165	0
Department of Defense, research	201,288	1,674	*	179,794	19,651	165	0
Department of Defense, operational systems development ^c	32,683	1,050	0	31,633	0	0	0
Kansas							
Department of Defense, RDT&E	83,876	1,978	0	20,726	61,146	*	0
Department of Defense, research	76,716	1,978	0	13,565	61,146	*	0

TABLE 63

Department of Defense obligations for research, development, test, and evaluation, by state or location, agency, and performer: FY 2021

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Defense, operational systems development ^c	7,161	0	0	7,161	0	0	0
Kentucky							
Department of Defense, RDT&E	178,990	127,954	0	33,040	16,941	86	969
Department of Defense, research	163,425	126,324	0	19,105	16,941	86	969
Department of Defense, operational systems development ^c	15,565	1,630	0	13,935	0	0	0
Louisiana							
Department of Defense, RDT&E	98,008	6,611	0	84,581	5,573	1,243	*
Department of Defense, research	89,377	6,611	0	75,950	5,573	1,243	*
Department of Defense, operational systems development ^c	8,631	0	0	8,631	0	0	0
Maine							
Department of Defense, RDT&E	40,316	12,141	2,040	23,284	1,885	966	0
Department of Defense, research	24,985	4,196	2,040	15,898	1,885	966	0
Department of Defense, operational systems development ^c	15,330	7,945	0	7,386	0	0	0
Maryland							
Department of Defense, RDT&E	5,944,982	3,243,606	6,527	1,510,220	882,783	301,536	310
Department of Defense, research	5,188,173	2,767,624	5,194	1,335,722	777,786	301,536	310
Department of Defense, operational systems development ^c	756,809	475,982	1,333	174,498	104,996	0	0
Massachusetts							
Department of Defense, RDT&E	5,005,343	347,882	1,923,010	2,282,022	305,965	146,465	0
Department of Defense, research	4,370,252	185,663	1,870,776	1,891,852	303,109	118,853	0
Department of Defense, operational systems development ^c	635,091	162,218	52,233	390,170	2,857	27,613	0
Michigan							
Department of Defense, RDT&E	986,642	404,646	*	470,545	89,084	22,365	0
Department of Defense, research	731,517	255,301	*	365,421	89,084	21,709	0
Department of Defense, operational systems development ^c	255,125	149,345	0	105,124	0	656	0
Minnesota							
Department of Defense, RDT&E	229,510	18,871	0	143,564	29,822	37,253	0
Department of Defense, research	226,938	18,871	0	140,992	29,822	37,253	0
Department of Defense, operational systems development ^c	2,572	0	0	2,572	0	0	0
Mississippi							
Department of Defense, RDT&E	131,560	79,486	0	27,668	24,247	158	0
Department of Defense, research	126,351	77,954	0	23,991	24,247	158	0

TABLE 63

Department of Defense obligations for research, development, test, and evaluation, by state or location, agency, and performer: FY 2021

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Defense, operational systems development ^c	5,209	1,532	0	3,677	0	0	0
Missouri							
Department of Defense, RDT&E	1,277,073	81,275	0	1,126,331	56,289	13,177	0
Department of Defense, research	976,576	71,133	0	835,977	56,289	13,177	0
Department of Defense, operational systems development ^c	300,497	10,143	0	290,355	0	0	0
Montana							
Department of Defense, RDT&E	81,885	3,309	0	11,327	67,031	219	0
Department of Defense, research	77,430	3,309	0	9,587	64,316	219	0
Department of Defense, operational systems development ^c	4,455	0	0	1,740	2,715	0	0
Nebraska							
Department of Defense, RDT&E	103,288	3,524	0	77,410	20,413	1,941	0
Department of Defense, research	42,448	3,524	0	16,690	20,413	1,820	0
Department of Defense, operational systems development ^c	60,840	0	0	60,719	0	121	0
Nevada							
Department of Defense, RDT&E	219,422	6,864	0	203,431	9,127	0	0
Department of Defense, research	209,532	4,914	0	195,490	9,127	0	0
Department of Defense, operational systems development ^c	9,890	1,950	0	7,940	0	0	0
New Hampshire							
Department of Defense, RDT&E	338,284	8,451	0	318,842	9,788	1,204	0
Department of Defense, research	272,965	7,224	0	254,749	9,788	1,204	0
Department of Defense, operational systems development ^c	65,319	1,227	0	64,093	0	0	0
New Jersey							
Department of Defense, RDT&E	2,009,963	1,254,114	0	682,397	67,358	6,094	0
Department of Defense, research	1,725,542	1,042,484	0	611,546	65,419	6,094	0
Department of Defense, operational systems development ^c	284,421	211,630	0	70,851	1,939	0	0
New Mexico							
Department of Defense, RDT&E	1,810,237	836,118	328,270	600,015	35,220	10,615	0
Department of Defense, research	1,665,889	767,357	279,956	572,741	35,220	10,615	0
Department of Defense, operational systems development ^c	144,348	68,761	48,313	27,274	0	0	0
New York							
Department of Defense, RDT&E	1,316,271	167,439	5,210	886,919	186,744	69,657	302
Department of Defense, research	1,169,060	123,797	5,210	784,174	186,744	68,832	302

TABLE 63

Department of Defense obligations for research, development, test, and evaluation, by state or location, agency, and performer: FY 2021

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Defense, operational systems development ^c	147,211	43,642	0	102,745	0	825	0
North Carolina							
Department of Defense, RDT&E	368,677	26,347	0	198,499	116,165	27,666	0
Department of Defense, research	345,047	21,827	0	179,390	116,165	27,666	0
Department of Defense, operational systems development ^c	23,630	4,521	0	19,110	0	0	0
North Dakota							
Department of Defense, RDT&E	24,021	0	0	19,306	4,681	*	0
Department of Defense, research	23,933	0	0	19,218	4,681	*	0
Department of Defense, operational systems development ^c	88	0	0	88	0	0	0
Ohio							
Department of Defense, RDT&E	2,595,042	1,107,486	24,316	1,212,302	178,683	72,110	144
Department of Defense, research	2,333,320	975,374	22,357	1,085,033	178,302	72,110	144
Department of Defense, operational systems development ^c	261,722	132,113	1,960	127,269	381	0	0
Oklahoma							
Department of Defense, RDT&E	1,597,514	1,127,318	0	458,089	11,792	315	0
Department of Defense, research	1,153,268	1,051,272	0	89,888	11,792	315	0
Department of Defense, operational systems development ^c	444,246	76,046	0	368,200	0	0	0
Oregon							
Department of Defense, RDT&E	332,324	131,182	1,782	82,057	116,939	364	0
Department of Defense, research	287,381	131,182	1,782	37,226	116,828	364	0
Department of Defense, operational systems development ^c	44,943	0	0	44,831	111	0	0
Pennsylvania							
Department of Defense, RDT&E	1,462,186	360,325	70,058	710,332	296,669	24,803	*
Department of Defense, research	1,295,879	297,728	64,174	632,386	276,965	24,625	*
Department of Defense, operational systems development ^c	166,307	62,597	5,883	77,946	19,704	177	0
Rhode Island							
Department of Defense, RDT&E	521,386	270,768	3,428	192,295	53,956	939	0
Department of Defense, research	479,218	242,361	3,253	178,709	53,956	939	0
Department of Defense, operational systems development ^c	42,168	28,407	175	13,586	0	0	0
South Carolina							
Department of Defense, RDT&E	1,270,576	156,101	11,383	816,915	57,119	229,058	0
Department of Defense, research	973,769	81,262	11,383	595,925	57,119	228,081	0

TABLE 63

Department of Defense obligations for research, development, test, and evaluation, by state or location, agency, and performer: FY 2021

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Defense, operational systems development ^c	296,807	74,839	0	220,990	0	977	0
South Dakota							
Department of Defense, RDT&E	51,466	9,919	0	32,840	7,977	729	0
Department of Defense, research	36,027	9,919	0	18,961	6,418	729	0
Department of Defense, operational systems development ^c	15,439	0	0	13,879	1,559	0	0
Tennessee							
Department of Defense, RDT&E	907,818	666,035	59,777	143,024	30,330	8,652	0
Department of Defense, research	847,842	644,976	30,646	133,238	30,330	8,652	0
Department of Defense, operational systems development ^c	59,976	21,058	29,131	9,786	0	0	0
Texas							
Department of Defense, RDT&E	4,002,352	300,773	64,905	3,333,438	263,049	40,188	0
Department of Defense, research	2,534,815	276,770	64,555	1,904,298	249,005	40,188	0
Department of Defense, operational systems development ^c	1,467,537	24,003	350	1,429,140	14,044	0	0
Utah							
Department of Defense, RDT&E	1,828,486	192,191	0	1,543,440	87,100	5,756	0
Department of Defense, research	1,640,157	125,921	0	1,429,880	78,600	5,756	0
Department of Defense, operational systems development ^c	188,329	66,269	0	113,559	8,501	0	0
Vermont							
Department of Defense, RDT&E	39,596	621	0	31,924	6,924	127	0
Department of Defense, research	34,521	621	0	30,877	2,896	127	0
Department of Defense, operational systems development ^c	5,076	0	0	1,048	4,028	0	0
Virginia							
Department of Defense, RDT&E	8,498,988	2,104,308	432,068	5,812,532	72,279	75,998	1,802
Department of Defense, research	7,734,839	1,879,983	385,685	5,331,462	71,506	64,400	1,802
Department of Defense, operational systems development ^c	764,149	224,326	46,383	481,070	773	11,598	0
Washington							
Department of Defense, RDT&E	1,233,361	155,019	46,041	932,035	63,466	36,800	0
Department of Defense, research	1,166,173	143,794	19,342	902,996	63,241	36,800	0
Department of Defense, operational systems development ^c	67,189	11,225	26,700	29,039	225	0	0
West Virginia							
Department of Defense, RDT&E	75,181	42,524	0	31,727	835	94	0
Department of Defense, research	29,565	374	0	28,262	835	94	0

TABLE 63

Department of Defense obligations for research, development, test, and evaluation, by state or location, agency, and performer: FY 2021

(Dollars in thousands)

State or location and agency	Total	Intramural		Extramural			
		Federal agencies ^a	FFRDCs	Businesses	Higher education ^b	Nonprofit organizations	State and local governments
Department of Defense, operational systems development ^c	45,615	42,150	0	3,465	0	0	0
Wisconsin							
Department of Defense, RDT&E	193,414	10,504	0	128,615	52,135	2,160	0
Department of Defense, research	140,754	10,504	0	76,076	52,014	2,160	0
Department of Defense, operational systems development ^c	52,660	0	0	52,539	121	0	0
Wyoming							
Department of Defense, RDT&E	95,589	3,235	5,170	68,628	18,071	484	0
Department of Defense, research	94,807	2,460	5,170	68,622	18,071	484	0
Department of Defense, operational systems development ^c	782	775	0	*	0	0	0
Outlying areas							
Department of Defense, RDT&E	99,710	17,635	0	54,273	4,014	23,788	0
Department of Defense, research	82,737	9,325	0	45,610	4,014	23,788	0
Department of Defense, operational systems development ^c	16,973	8,310	0	8,663	0	0	0
Puerto Rico							
Department of Defense, RDT&E	5,569	1,473	0	1,899	2,197	0	0
Department of Defense, research	4,768	1,473	0	1,098	2,197	0	0
Department of Defense, operational systems development ^c	800	0	0	800	0	0	0
Other areas ^d							
Department of Defense, RDT&E	94,142	16,162	0	52,374	1,817	23,788	0
Department of Defense, research	77,969	7,852	0	44,512	1,817	23,788	0
Department of Defense, operational systems development ^c	16,173	8,310	0	7,863	0	0	0
Offices abroad ^e							
Department of Defense, RDT&E	175,057	42,278	0	128,891	3,643	245	0
Department of Defense, research	111,237	41,846	0	65,904	3,242	245	0
Department of Defense, operational systems development ^c	63,820	432	0	62,987	401	0	0
Undistributed ^f							
Department of Defense, RDT&E	28,557,217	5,221,743	4,544	23,322,586	0	8,344	0
Department of Defense, research	5,176,678	4,912,358	4,544	251,431	0	8,344	0
Department of Defense, operational systems development ^c	23,380,540	309,385	0	23,071,155	0	0	0

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

FFRDC = federally funded research and development center; RDT&E = research, development, test, and evaluation.

^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.

^c Funding for Department of Defense's (DOD's) operational systems development (Budget Activity 7) was first reported as a separate category for volume 66.

^d Includes American Samoa, Baker Island, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Navassa Island, Northern Mariana Islands, Palmyra Atoll, U.S. Virgin Islands, and Wake Island.

^e Includes both R&D and RDT&E performed or administered in foreign countries by the U.S. government.

^f Undistributed totals include DOD obligations for which the location of performance is not reported.

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. Geographic distribution of DOD development funding to businesses reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D. 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.