

TABLE 63

Department of Defense obligations for research, development, test, and evaluation, by state or location, agency, and performer: FY 2022

(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	3,336,437	2,080,743	608	1,195,966	55,622	3,261	237
Department of Defense, research	3,041,448	1,937,219	608	1,059,348	42,370	1,666	237
Department of Defense, operational system development ^c	294,989	143,524	0	136,618	13,252	1,595	0
Alaska							
Department of Defense, RDT&E	82,656	2,942	0	66,289	12,371	1,055	0
Department of Defense, research	73,064	2,942	0	56,697	12,371	1,055	0
Department of Defense, operational system development ^c	9,592	0	0	9,592	0	0	0
Arizona							
Department of Defense, RDT&E	1,904,714	138,923	0	1,681,760	77,924	0	6,107
Department of Defense, research	1,536,478	60,472	0	1,391,975	77,924	0	6,107
Department of Defense, operational system development ^c	368,236	78,451	0	289,785	0	0	0
Arkansas							
Department of Defense, RDT&E	59,809	544	0	44,972	12,539	893	860
Department of Defense, research	58,239	108	0	43,839	12,539	893	860
Department of Defense, operational system development ^c	1,570	436	0	1,134	0	0	0
California							
Department of Defense, RDT&E	10,860,374	2,584,621	1,176,181	6,361,097	601,425	135,022	2,029
Department of Defense, research	9,144,281	2,030,596	724,538	5,656,376	600,050	130,693	2,029
Department of Defense, operational system development ^c	1,716,093	554,026	451,643	704,720	1,375	4,329	0
Colorado							
Department of Defense, RDT&E	2,680,410	151,296	15,650	2,441,534	63,518	8,401	11
Department of Defense, research	2,327,477	134,167	15,650	2,105,731	63,518	8,401	11
Department of Defense, operational system development ^c	352,933	17,129	0	335,804	0	0	0
Connecticut							
Department of Defense, RDT&E	1,792,504	12,620	0	1,735,288	43,851	745	0
Department of Defense, research	1,581,930	12,620	0	1,524,714	43,851	745	0
Department of Defense, operational system development ^c	210,574	0	0	210,574	0	0	0
Delaware							
Department of Defense, RDT&E	156,120	26,019	0	99,371	28,148	1,571	1,011
Department of Defense, research	156,085	26,019	0	99,336	28,148	1,571	1,011
Department of Defense, operational system development ^c	35	0	0	35	0	0	0
District of Columbia							
Department of Defense, RDT&E	3,951,491	2,974,124	11,728	714,423	39,372	211,844	0
Department of Defense, research	3,569,978	2,721,414	10,101	589,331	39,372	209,759	0
Department of Defense, operational system development ^c	381,513	252,710	1,626	125,091	0	2,085	0
Florida							
Department of Defense, RDT&E	3,142,635	739,536	4,389	2,218,569	116,708	62,329	1,103
Department of Defense, research	2,689,320	638,347	0	1,883,469	115,387	51,014	1,103

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Department of Defense, operational system development ^c	453,315	101,189	4,389	335,100	1,321	11,315	0
Georgia							
Department of Defense, RDT&E	652,963	172,323	15	216,546	258,397	5,682	0
Department of Defense, research	460,956	94,783	15	135,195	229,490	1,473	0
Department of Defense, operational system development ^c	192,007	77,540	0	81,351	28,907	4,209	0
Hawaii							
Department of Defense, RDT&E	194,791	31,916	0	121,014	25,541	11,225	5,095
Department of Defense, research	189,922	30,989	0	119,080	23,533	11,225	5,095
Department of Defense, operational system development ^c	4,870	927	0	1,934	2,009	0	0
Idaho							
Department of Defense, RDT&E	129,827	32,620	34,435	56,914	3,129	0	2,729
Department of Defense, research	126,682	31,283	34,435	55,106	3,129	0	2,729
Department of Defense, operational system development ^c	3,145	1,337	0	1,809	0	0	0
Illinois							
Department of Defense, RDT&E	576,249	222,228	1,469	224,027	115,035	13,489	0
Department of Defense, research	471,169	148,967	969	192,708	115,035	13,489	0
Department of Defense, operational system development ^c	105,080	73,260	500	31,319	0	0	0
Indiana							
Department of Defense, RDT&E	757,293	318,859	0	350,003	86,591	1,790	50
Department of Defense, research	618,469	284,105	0	247,383	86,591	340	50
Department of Defense, operational system development ^c	138,824	34,754	0	102,620	0	1,450	0
Iowa							
Department of Defense, RDT&E	228,320	551	0	211,776	15,993	0	0
Department of Defense, research	201,554	551	0	185,010	15,993	0	0
Department of Defense, operational system development ^c	26,766	0	0	26,766	0	0	0
Kansas							
Department of Defense, RDT&E	64,103	2,165	0	6,831	55,107	0	0
Department of Defense, research	61,836	1,464	0	5,266	55,107	0	0
Department of Defense, operational system development ^c	2,267	701	0	1,566	0	0	0
Kentucky							
Department of Defense, RDT&E	44,754	8,829	0	20,769	15,156	0	0
Department of Defense, research	30,158	3,730	0	11,272	15,156	0	0
Department of Defense, operational system development ^c	14,597	5,099	0	9,497	0	0	0
Louisiana							
Department of Defense, RDT&E	121,645	1,015	0	110,436	9,155	690	349
Department of Defense, research	117,749	1,015	0	106,540	9,155	690	349
Department of Defense, operational system development ^c	3,896	0	0	3,896	0	0	0
Maine							

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Department of Defense, RDT&E	37,765	2,832	5	16,825	18,046	57	0	
Department of Defense, research	36,977	2,496	5	16,372	18,046	57	0	
Department of Defense, operational system development ^c	789	336	0	453	0	0	0	
Maryland								
Department of Defense, RDT&E	6,261,341	3,135,337	24,422	2,048,723	765,073	287,271	514	
Department of Defense, research	5,472,538	2,707,309	21,007	1,822,024	635,673	286,011	514	
Department of Defense, operational system development ^c	788,802	428,029	3,415	226,699	129,401	1,260	0	
Massachusetts								
Department of Defense, RDT&E	4,280,547	258,657	1,725,284	1,730,593	376,281	189,732	0	
Department of Defense, research	3,441,904	215,730	1,274,305	1,438,062	361,668	152,138	0	
Department of Defense, operational system development ^c	838,644	42,928	450,979	292,531	14,612	37,594	0	
Michigan								
Department of Defense, RDT&E	1,181,056	460,623	0	500,115	82,091	138,228	0	
Department of Defense, research	930,149	341,922	0	386,740	81,991	119,496	0	
Department of Defense, operational system development ^c	250,907	118,700	0	113,375	100	18,732	0	
Minnesota								
Department of Defense, RDT&E	208,369	3,647	0	164,837	27,550	12,336	0	
Department of Defense, research	203,777	3,647	0	160,244	27,550	12,336	0	
Department of Defense, operational system development ^c	4,592	0	0	4,592	0	0	0	
Mississippi								
Department of Defense, RDT&E	829,499	446,995	0	373,093	9,411	0	0	
Department of Defense, research	823,935	444,683	0	369,842	9,411	0	0	
Department of Defense, operational system development ^c	5,564	2,313	0	3,251	0	0	0	
Missouri								
Department of Defense, RDT&E	898,343	91,708	0	740,201	56,855	9,579	0	
Department of Defense, research	687,439	53,618	0	567,445	56,796	9,579	0	
Department of Defense, operational system development ^c	210,904	38,090	0	172,756	59	0	0	
Montana								
Department of Defense, RDT&E	89,044	361	0	32,815	55,668	200	0	
Department of Defense, research	67,433	361	0	11,214	55,658	200	0	
Department of Defense, operational system development ^c	21,611	0	0	21,601	10	0	0	
Nebraska								
Department of Defense, RDT&E	58,594	8,262	0	35,100	15,233	0	0	
Department of Defense, research	29,814	8,262	0	6,319	15,233	0	0	
Department of Defense, operational system development ^c	28,781	0	0	28,781	0	0	0	
Nevada								
Department of Defense, RDT&E	216,047	15,948	0	194,582	5,518	0	0	
Department of Defense, research	176,001	7,026	0	163,458	5,518	0	0	

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Department of Defense, operational system development ^c	40,046	8,922	0	31,124	0	0	0
New Hampshire							
Department of Defense, RDT&E	341,967	5,667	0	319,124	17,177	0	0
Department of Defense, research	218,708	3,393	0	198,138	17,177	0	0
Department of Defense, operational system development ^c	123,259	2,274	0	120,985	0	0	0
New Jersey							
Department of Defense, RDT&E	2,568,147	809,583	0	1,692,800	60,732	5,032	0
Department of Defense, research	2,427,421	695,973	0	1,665,713	60,703	5,032	0
Department of Defense, operational system development ^c	140,726	113,610	0	27,087	29	0	0
New Mexico							
Department of Defense, RDT&E	1,370,450	565,367	346,204	409,517	43,922	5,441	0
Department of Defense, research	1,235,144	496,696	300,390	388,695	43,922	5,441	0
Department of Defense, operational system development ^c	135,306	68,671	45,814	20,821	0	0	0
New York							
Department of Defense, RDT&E	1,402,963	175,769	0	885,343	241,225	100,226	400
Department of Defense, research	1,206,859	138,614	0	726,393	241,225	100,226	400
Department of Defense, operational system development ^c	196,105	37,155	0	158,949	0	0	0
North Carolina							
Department of Defense, RDT&E	335,835	8,600	0	204,627	90,495	31,972	140
Department of Defense, research	315,663	4,797	0	188,259	90,495	31,972	140
Department of Defense, operational system development ^c	20,172	3,803	0	16,368	0	0	0
North Dakota							
Department of Defense, RDT&E	28,220	2,345	0	17,704	8,171	0	0
Department of Defense, research	28,220	2,345	0	17,704	8,171	0	0
Department of Defense, operational system development ^c	*	0	0	*	0	0	0
Ohio							
Department of Defense, RDT&E	7,161,930	5,949,148	11,491	943,196	137,235	120,860	0
Department of Defense, research	6,709,129	5,654,190	7,733	790,698	137,085	119,423	0
Department of Defense, operational system development ^c	452,801	294,958	3,758	152,498	150	1,438	0
Oklahoma							
Department of Defense, RDT&E	681,817	136,740	0	535,741	9,335	0	0
Department of Defense, research	79,584	38,445	0	31,803	9,335	0	0
Department of Defense, operational system development ^c	602,233	98,295	0	503,938	0	0	0
Oregon							
Department of Defense, RDT&E	74,527	938	0	43,953	26,450	3,186	0
Department of Defense, research	71,578	938	0	41,313	26,450	2,877	0
Department of Defense, operational system development ^c	2,949	0	0	2,640	0	309	0
Pennsylvania							

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Department of Defense, RDT&E	1,758,354	343,111	54,848	827,770	473,981	58,644	0
Department of Defense, research	1,578,904	279,396	42,166	766,782	444,456	46,104	0
Department of Defense, operational system development ^c	179,451	63,715	12,682	60,989	29,525	12,540	0
Rhode Island							
Department of Defense, RDT&E	579,328	348,469	0	202,451	27,816	292	300
Department of Defense, research	521,198	296,087	0	196,703	27,816	292	300
Department of Defense, operational system development ^c	58,129	52,382	0	5,748	0	0	0
South Carolina							
Department of Defense, RDT&E	928,935	163,224	10,118	496,433	28,141	231,018	0
Department of Defense, research	686,757	102,221	8,868	320,299	28,141	227,227	0
Department of Defense, operational system development ^c	242,178	61,003	1,250	176,133	0	3,792	0
South Dakota							
Department of Defense, RDT&E	16,009	7,267	0	7,495	1,247	0	0
Department of Defense, research	15,588	7,267	0	7,075	1,247	0	0
Department of Defense, operational system development ^c	420	0	0	420	0	0	0
Tennessee							
Department of Defense, RDT&E	538,083	278,423	13,944	172,191	70,566	2,959	0
Department of Defense, research	516,876	272,526	9,844	160,981	70,566	2,959	0
Department of Defense, operational system development ^c	21,207	5,897	4,100	11,210	0	0	0
Texas							
Department of Defense, RDT&E	3,404,147	511,145	36,349	2,576,534	261,242	18,847	30
Department of Defense, research	2,032,364	483,776	36,349	1,245,687	250,449	16,075	30
Department of Defense, operational system development ^c	1,371,782	27,369	0	1,330,847	10,793	2,773	0
Utah							
Department of Defense, RDT&E	2,754,859	300,377	0	2,349,023	101,550	3,909	0
Department of Defense, research	2,580,287	247,974	0	2,242,892	85,513	3,909	0
Department of Defense, operational system development ^c	174,571	52,403	0	106,132	16,037	0	0
Vermont							
Department of Defense, RDT&E	20,143	0	0	15,688	850	3,606	0
Department of Defense, research	18,986	0	0	14,530	850	3,606	0
Department of Defense, operational system development ^c	1,157	0	0	1,157	0	0	0
Virginia							
Department of Defense, RDT&E	8,205,670	2,090,917	553,853	5,365,015	101,929	89,292	4,664
Department of Defense, research	7,356,864	1,954,122	512,671	4,738,075	76,479	70,853	4,664
Department of Defense, operational system development ^c	848,806	136,795	41,182	626,940	25,450	18,440	0
Washington							
Department of Defense, RDT&E	1,012,122	265,520	29,146	570,811	103,956	42,688	1
Department of Defense, research	951,429	248,858	22,586	540,440	96,857	42,688	1

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Department of Defense, operational system development ^c	60,694	16,663	6,561	30,371	7,100	0	0
West Virginia							
Department of Defense, RDT&E	45,454	79	0	40,088	4,732	554	0
Department of Defense, research	38,603	79	0	36,238	1,732	554	0
Department of Defense, operational system development ^c	6,851	0	0	3,851	3,000	0	0
Wisconsin							
Department of Defense, RDT&E	213,671	157	0	179,254	34,103	157	0
Department of Defense, research	212,637	157	0	178,220	34,103	157	0
Department of Defense, operational system development ^c	1,034	0	0	1,034	0	0	0
Wyoming							
Department of Defense, RDT&E	1,221	79	0	956	186	0	0
Department of Defense, research	1,179	79	0	914	186	0	0
Department of Defense, operational system development ^c	41	0	0	41	0	0	0
Outlying areas							
Department of Defense, RDT&E	4,650	46	0	129	4,476	0	0
Department of Defense, research	4,650	46	0	129	4,476	0	0
Department of Defense, operational system development ^c	0	0	0	0	0	0	0
Puerto Rico							
Department of Defense, RDT&E	1,997	0	0	0	1,997	0	0
Department of Defense, research	1,997	0	0	0	1,997	0	0
Department of Defense, operational system development ^c	0	0	0	0	0	0	0
Other areas ^d							
Department of Defense, RDT&E	2,653	46	0	129	2,479	0	0
Department of Defense, research	2,653	46	0	129	2,479	0	0
Department of Defense, operational system development ^c	0	0	0	0	0	0	0
Offices abroad ^e							
Department of Defense, RDT&E	6,081	1,170	0	4,911	0	0	0
Department of Defense, research	4,192	1,170	0	3,022	0	0	0
Department of Defense, operational system development ^c	1,889	0	0	1,889	0	0	0
Undistributed ^f							
Department of Defense, RDT&E	37,440,371	4,965,220	320	32,466,850	7,935	46	0
Department of Defense, research	4,972,632	3,771,869	320	1,192,463	7,935	46	0
Department of Defense, operational system development ^c	32,467,739	1,193,351	0	31,274,388	0	0	0

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

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 System 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. 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 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.