

TABLE 8

**Total and federally financed R&D expenditures at federally funded research and development centers, by FFRDC: FYs 2017–20**

(Dollars in thousands)

FFRDC	Total				Federally financed			
	2017	2018	2019	2020	2017	2018	2019	2020
All FFRDCs	20,038,307	21,171,529	22,737,500	23,514,241	19,667,804	20,770,388	22,338,855	23,133,501
University-administered FFRDCs	6,155,252	6,715,338	6,946,262	7,003,132	6,013,003	6,560,094	6,796,696	6,867,741
Ames Laboratory	53,527	36,858	33,612	32,844	52,830	35,696	33,211	32,302
Argonne National Laboratory	723,824	777,246	810,693	859,658	690,234	747,349	787,513	840,237
Fermi National Accelerator Laboratory	320,516	328,419	334,258	300,002	319,559	327,630	333,460	299,811
Jet Propulsion Laboratory	2,324,826	2,733,908	2,709,063	2,638,412	2,324,826	2,733,908	2,709,063	2,638,412
Lawrence Berkeley National Laboratory	813,267	832,457	872,237	916,082	755,899	769,839	807,967	862,965
Lincoln Laboratory	969,090	1,013,320	1,103,870	1,115,927	963,584	1,001,849	1,084,953	1,093,081
National Center for Atmospheric Research	171,551	158,260	199,476	188,484	151,138	139,532	187,615	175,316
National Radio Astronomy Observatory	91,720	100,691	101,901	100,078	89,791	98,642	99,881	98,458
National Solar Observatory	11,841	14,733	15,931	16,892	11,833	14,027	15,892	16,472
NSF's National Optical-Infrared Astronomy Research Laboratory	25,906	33,874	38,262	72,686	22,479	24,172	28,760	69,685
Princeton Plasma Physics Laboratory	81,444	82,435	91,271	107,662	81,123	82,057	91,119	103,856
SLAC National Accelerator Laboratory	327,453	341,615	368,938	382,264	311,686	326,587	352,527	366,936
Software Engineering Institute	132,967	142,891	140,954	141,291	132,870	142,877	140,940	141,291
Thomas Jefferson National Accelerator Facility	107,320	118,631	125,796	130,850	105,151	115,929	123,795	128,919
Nonprofit-administered FFRDCs	6,413,612	6,617,274	7,033,162	7,419,509	6,297,166	6,490,564	6,891,730	7,279,066
Aerospace Federally Funded Research and Development Center	942,704	1,020,827	1,065,989	1,114,741	939,793	1,018,425	1,062,804	1,109,291
Arroyo Center	42,723	39,738	37,956	35,248	42,723	39,738	37,956	35,248
Brookhaven National Laboratory	556,875	552,640	590,470	595,466	539,075	525,170	561,030	569,925
Center for Advanced Aviation System Development	168,169	177,530	174,123	180,634	148,610	156,437	152,539	163,497
Center for Communications and Computing	66,692	68,237	68,371	67,072	66,692	68,237	68,371	67,072
Center for Enterprise Modernization	154,933	162,690	174,712	190,408	154,829	161,448	173,127	190,408
Center for Naval Analyses	90,401	95,198	96,697	95,874	90,401	95,198	96,697	95,874
Center for Nuclear Waste Regulatory Analyses	6,312	5,054	6,987	6,762	5,207	4,647	6,340	6,359
CMS Alliance to Modernize Healthcare	169,013	175,030	213,369	228,162	169,013	175,030	213,369	228,162
Homeland Security Operational Analysis Center	8,622	46,321	54,751	44,736	8,622	46,321	54,751	44,736
Homeland Security Systems Engineering and Development Institute	104,414	104,689	115,813	136,874	104,414	104,689	115,813	135,713
Judiciary Engineering and Modernization Center	8,030	6,697	7,331	6,765	8,030	6,697	7,331	6,708
National Biodefense Analysis and Countermeasures Center	34,991	37,598	39,003	42,330	34,991	37,598	39,003	42,330

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(Dollars in thousands)

FFRDC	Total				Federally financed			
	2017	2018	2019	2020	2017	2018	2019	2020
National Cybersecurity Center of Excellence	13,436	19,556	22,205	23,557	13,436	19,556	22,205	23,557
National Defense Research Institute	69,013	57,743	67,647	64,134	69,013	57,743	67,647	64,134
National Renewable Energy Laboratory	357,916	388,500	455,016	511,585	328,197	349,410	405,923	456,336
National Security Engineering Center	1,012,155	1,078,610	1,124,861	1,143,701	1,009,971	1,077,697	1,123,616	1,142,013
Oak Ridge National Laboratory	1,403,204	1,399,445	1,470,372	1,632,684	1,373,042	1,378,398	1,454,122	1,616,580
Pacific Northwest National Laboratory	983,962	956,193	1,012,136	1,071,249	971,060	943,147	993,733	1,053,982
Project Air Force	48,521	48,858	48,325	46,936	48,521	48,858	48,325	46,936
Science and Technology Policy Institute	8,401	8,086	9,080	9,256	8,401	8,086	9,080	9,256
Systems and Analyses Center	163,125	168,034	177,948	171,335	163,125	168,034	177,948	170,949
Industry-administered FFRDCs	7,469,443	7,838,917	8,758,076	9,091,600	7,357,635	7,719,730	8,650,429	8,986,694
Frederick National Laboratory for Cancer Research	704,223	748,500	751,452	745,726	704,223	748,500	751,452	745,726
Idaho National Laboratory	482,840	395,112	478,324	494,094	462,659	376,053	463,588	481,146
Lawrence Livermore National Laboratory	1,290,134	1,386,687	1,517,429	1,558,071	1,259,015	1,353,502	1,480,978	1,526,467
Los Alamos National Laboratory	1,972,769	2,145,232	2,461,275	2,722,375	1,950,268	2,120,857	2,440,514	2,701,388
Sandia National Laboratories	2,878,000	3,009,105	3,373,217	3,395,241	2,839,993	2,967,822	3,340,658	3,358,481
Savannah River National Laboratory	141,477	154,281	176,379	176,093	141,477	152,996	173,239	173,486

FFRDC = federally funded research and development center; NSF = National Science Foundation.

**Source(s):**

National Center for Science and Engineering Statistics, FFRDC Research and Development Survey.