

**Table 3****R&D expenditures at federally funded research and development centers, by FFRDC: FYs 2016–20**

(Thousands of current dollars)

FFRDC	2016	2017	2018	2019	2020	% change 2019–20
All FFRDCs	19,219,702	20,038,307	21,171,529	22,737,500	23,514,241	3.4
University-administered FFRDCs	5,669,908	6,155,252	6,715,338	6,946,262	7,003,132	0.8
Ames Laboratory	46,886	53,527	36,858	33,612	32,844	-2.3
Argonne National Laboratory	733,377	723,824	777,246	810,693	859,658	6.0
Fermi National Accelerator Laboratory	323,507	320,516	328,419	334,258	300,002	-10.2
Jet Propulsion Laboratory	1,852,369	2,324,826	2,733,908	2,709,063	2,638,412	-2.6
Lawrence Berkeley National Laboratory	797,831	813,267	832,457	872,237	916,082	5.0
Lincoln Laboratory	949,138	969,090	1,013,320	1,103,870	1,115,927	1.1
National Center for Atmospheric Research	177,422	171,551	158,260	199,476	188,484	-5.5
National Radio Astronomy Observatory	90,411	91,720	100,691	101,901	100,078	-1.8
National Solar Observatory	12,783	11,841	14,733	15,931	16,892	6.0
NSF's National Optical-Infrared Astronomy Research Laboratory (NSF's NOIRLab)	24,917	25,906	33,874	38,262	72,686	90.0
Princeton Plasma Physics Laboratory	82,246	81,444	82,435	91,271	107,662	18.0
SLAC National Accelerator Laboratory	313,031	327,453	341,615	368,938	382,264	3.6
Software Engineering Institute	145,981	132,967	142,891	140,954	141,291	0.2
Thomas Jefferson National Accelerator Facility	120,009	107,320	118,631	125,796	130,850	4.0
Nonprofit-administered FFRDCs	6,128,058	6,413,612	6,617,274	7,033,162	7,419,509	5.5
Aerospace Federally Funded Research and Development Center	909,868	942,704	1,020,827	1,065,989	1,114,741	4.6
Arroyo Center	44,616	42,723	39,738	37,956	35,248	-7.1
Brookhaven National Laboratory	579,087	556,875	552,640	590,470	595,466	0.8
Center for Advanced Aviation System Development	156,644	168,169	177,530	174,123	180,634	3.7
Center for Communications and Computing	61,625	66,692	68,237	68,371	67,072	-1.9
Center for Enterprise Modernization	146,436	154,933	162,690	174,712	190,408	9.0
Center for Naval Analyses	84,232	90,401	95,198	96,697	95,874	-0.9
Center for Nuclear Waste Regulatory Analyses	8,600	6,312	5,054	6,987	6,762	-3.2
CMS Alliance to Modernize Healthcare	141,860	169,013	175,030	213,369	228,162	6.9
Homeland Security Operational Analysis Center	na	8622	46321	54,751	44,736	-18.3
Homeland Security Studies and Analysis Institute	22,038	na	na	na	na	
Homeland Security Systems Engineering and Development Institute	101,628	104,414	104,689	115,813	136,874	18.2
Judiciary Engineering and Modernization Center	9,289	8,030	6,697	7,331	6,765	-7.7
National Biodefense Analysis and Countermeasures Center	32,902	34,991	37,598	39,003	42,330	8.5
National Cybersecurity Center of Excellence	13,076	13,436	19,556	22,205	23,557	6.1
National Defense Research Institute	62,848	69,013	57,743	67,647	64,134	-5.2
National Renewable Energy Laboratory	362,087	357,916	388,500	455,016	511,585	12.4
National Security Engineering Center	966,542	1,012,155	1,078,610	1,124,861	1,143,701	1.7
Oak Ridge National Laboratory	1,283,729	1,403,204	1,399,445	1,470,372	1,632,684	11.0
Pacific Northwest National Laboratory	914,747	983,962	956,193	1,012,136	1,071,249	5.8
Project Air Force	49,165	48,521	48,858	48,325	46,936	-2.9
Science and Technology Policy Institute	7,459	8,401	8,086	9,080	9,256	1.9
Systems and Analyses Center	169,580	163,125	168,034	177,948	171,335	-3.7
Industry-administered FFRDCs	7,421,736	7,469,443	7,838,917	8,758,076	9,091,600	3.8
Frederick National Laboratory for Cancer Research	642,165	704,223	748,500	751,452	745,726	-0.8
Idaho National Laboratory	521,618	482,840	395,112	478,324	494,094	3.3
Lawrence Livermore National Laboratory	1,363,525	1,290,134	1,386,687	1,517,429	1,558,071	2.7
Los Alamos National Laboratory	1,987,000	1,972,769	2,145,232	2,461,275	2,722,375	10.6
Sandia National Laboratories	2,781,547	2,878,000	3,009,105	3,373,217	3,395,241	0.7

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(Thousands of current dollars)

FFRDC	2016	2017	2018	2019	2020	% change 2019–20
Savannah River National Laboratory	125,881	141,477	154,281	176,379	176,093	-0.2

na = not applicable.

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.