

Table 3**R&D expenditures at federally funded research and development centers, by FFRDC: FYs 2017–21**

(Thousands of current dollars and percent change)

FFRDC	2017	2018	2019	2020	2021	% change 2020–21
All FFRDCs	20,038,307	21,171,529	22,737,500	23,514,241	24,921,476	6.0
University-administered FFRDCs	6,155,252	6,715,338	6,946,262	7,003,132	6,850,276	-2.2
Ames Laboratory	53,527	36,858	33,612	32,844	34,214	4.2
Argonne National Laboratory	723,824	777,246	810,693	859,658	856,568	-0.4
Fermi National Accelerator Laboratory	320,516	328,419	334,258	300,002	319,051	6.3
Green Bank Observatory ^a	NA	NA	NA	NA	8,629	NA
Jet Propulsion Laboratory	2,324,826	2,733,908	2,709,063	2,638,412	2,388,355	-9.5
Lawrence Berkeley National Laboratory	813,267	832,457	872,237	916,082	966,972	5.6
Lincoln Laboratory	969,090	1,013,320	1,103,870	1,115,927	1,136,133	1.8
National Center for Atmospheric Research	171,551	158,260	199,476	188,484	181,010	-4.0
National Radio Astronomy Observatory	91,720	100,691	101,901	100,078	94,202	-5.9
National Solar Observatory	11,841	14,733	15,931	16,892	17,684	4.7
NSF's National Optical-Infrared Astronomy Research Laboratory	25,906	33,874	38,262	72,686	75,251	3.5
Princeton Plasma Physics Laboratory	81,444	82,435	91,271	107,662	115,505	7.3
SLAC National Accelerator Laboratory	327,453	341,615	368,938	382,264	396,780	3.8
Software Engineering Institute	132,967	142,891	140,954	141,291	120,443	-14.8
Thomas Jefferson National Accelerator Facility	107,320	118,631	125,796	130,850	139,479	6.6
Nonprofit-administered FFRDCs	6,413,612	6,617,274	7,033,162	7,419,509	8,370,508	12.8
Aerospace Federally Funded Research and Development Center	942,704	1,020,827	1,065,989	1,114,741	1,128,241	1.2
Arroyo Center	42,723	39,738	37,956	35,248	38,304	8.7
Brookhaven National Laboratory	556,875	552,640	590,470	595,466	637,658	7.1
Center for Advanced Aviation System Development	168,169	177,530	174,123	180,634	230,484	27.6
Center for Communications and Computing	66,692	68,237	68,371	67,072	65,255	-2.7
Center for Enterprise Modernization	154,933	162,690	174,712	190,408	263,661	38.5
Center for Naval Analyses	90,401	95,198	96,697	95,874	96,391	0.5
Center for Nuclear Waste Regulatory Analyses	6,312	5,054	6,987	6,762	5,630	-16.7
CMS Alliance to Modernize Healthcare	169,013	175,030	213,369	228,162	348,269	52.6
Homeland Security Operational Analysis Center	8,622	46,321	54,751	44,736	34,888	-22.0
Homeland Security Systems Engineering and Development Institute	104,414	104,689	115,813	136,874	183,588	34.1
Judiciary Engineering and Modernization Center	8,030	6,697	7,331	6,765	5,493	-18.8
National Biodefense Analysis and Countermeasures Center	34,991	37,598	39,003	42,330	44,968	6.2
National Cybersecurity Center of Excellence	13,436	19,556	22,205	23,557	33,671	42.9
National Defense Research Institute	69,013	57,743	67,647	64,134	66,170	3.2
National Renewable Energy Laboratory	357,916	388,500	455,016	511,585	559,151	9.3
National Security Engineering Center	1,012,155	1,078,610	1,124,861	1,143,701	1,468,298	28.4
Oak Ridge National Laboratory	1,403,204	1,399,445	1,470,372	1,632,684	1,760,578	7.8
Pacific Northwest National Laboratory	983,962	956,193	1,012,136	1,071,249	1,168,268	9.1
Project Air Force	48,521	48,858	48,325	46,936	47,966	2.2
Science and Technology Policy Institute	8,401	8,086	9,080	9,256	9,784	5.7
Systems and Analyses Center	163,125	168,034	177,948	171,335	173,792	1.4
Industry-administered FFRDCs	7,469,443	7,838,917	8,758,076	9,091,600	9,700,692	6.7
Frederick National Laboratory for Cancer Research	704,223	748,500	751,452	745,726	861,605	15.5
Idaho National Laboratory	482,840	395,112	478,324	494,094	516,691	4.6
Lawrence Livermore National Laboratory	1,290,134	1,386,687	1,517,429	1,558,071	1,613,673	3.6
Los Alamos National Laboratory	1,972,769	2,145,232	2,461,275	2,722,375	2,974,164	9.2
Sandia National Laboratories	2,878,000	3,009,105	3,373,217	3,395,241	3,542,756	4.3

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FFRDC	2017	2018	2019	2020	2021	% change 2020–21
Savannah River National Laboratory	141,477	154,281	176,379	176,093	191,803	8.9

NA = not available.

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

^a Prior to the FY 2021 collection, the National Center for Science and Engineering Statistics discovered that the Green Bank Observatory had split from the National Radio Astronomy Observatory on 1 October 2016; both retained FFRDC status. For FYs 2017–20, R&D expenditures reported for National Radio Astronomy Observatory include the expenditures for the Green Bank Observatory. The Green Bank Observatory began reporting separately on the FY 2021 survey.

Source(s):

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