

Table 3**R&D expenditures at federally funded research and development centers, by FFRDC: FYs 2018–22**

(Thousands of current dollars)

FFRDC	2018	2019	2020	2021	2022	% change 2021–22
All FFRDCs	21,171,529	22,737,500	23,514,241	24,921,476	26,524,014	6.4
University-administered FFRDCs	6,715,338	6,946,262	7,003,132	6,850,276	7,165,067	4.6
Ames Laboratory	36,858	33,612	32,844	34,214	38,520	12.6
Argonne National Laboratory	777,246	810,693	859,658	856,568	962,973	12.4
Fermi National Accelerator Laboratory	328,419	334,258	300,002	319,051	330,294	3.5
Green Bank Observatory ^a	NA	NA	NA	8,629	10,752	24.6
Jet Propulsion Laboratory	2,733,908	2,709,063	2,638,412	2,388,355	2,417,556	1.2
Lawrence Berkeley National Laboratory	832,457	872,237	916,082	966,972	1,031,716	6.7
Lincoln Laboratory	1,013,320	1,103,870	1,115,927	1,136,133	1,142,615	0.6
National Center for Atmospheric Research	158,260	199,476	188,484	181,010	188,238	4.0
National Radio Astronomy Observatory	100,691	101,901	100,078	94,202	92,476	-1.8
National Solar Observatory	14,733	15,931	16,892	17,684	33,849	91.4
NSF's National Optical-Infrared Astronomy Research Laboratory (NSF's NOIRLab)	33,874	38,262	72,686	75,251	81,505	8.3
Princeton Plasma Physics Laboratory	82,435	91,271	107,662	115,505	120,347	4.2
SLAC National Accelerator Laboratory	341,615	368,938	382,264	396,780	432,078	8.9
Software Engineering Institute	142,891	140,954	141,291	120,443	129,316	7.4
Thomas Jefferson National Accelerator Facility	118,631	125,796	130,850	139,479	152,832	9.6
Nonprofit-administered FFRDCs	6,617,274	7,511,486	7,913,603	9,079,002	9,171,826	1.0
Aerospace Federally Funded Research and Development Center	1,020,827	1,065,989	1,114,741	1,128,241	1,152,833	2.2
Arroyo Center	39,738	37,956	35,248	38,304	40,856	6.7
Brookhaven National Laboratory	552,640	590,470	595,466	637,658	655,988	2.9
Center for Advanced Aviation System Development	177,530	174,123	180,634	230,484	189,490	-17.8
Center for Communications and Computing	68,237	68,371	67,072	65,255	74,759	14.6
Center for Enterprise Modernization	162,690	174,712	190,408	263,661	235,436	-10.7
Center for Naval Analyses	95,198	96,697	95,874	96,391	93,567	-2.9
Center for Nuclear Waste Regulatory Analyses	5,054	6,987	6,762	5,630	4,323	-23.2
CMS Alliance to Modernize Healthcare	175,030	213,369	228,162	348,269	286,693	-17.7
Homeland Security Operational Analysis Center	46,321	54,751	44,736	34,888	52,984	51.9
Homeland Security Systems Engineering and Development Institute	104,689	115,813	136,874	183,588	183,261	-0.2
Idaho National Laboratory	395,112	478,324	494,094	516,691	637,579	23.4
Judiciary Engineering Modernization Center ^b	6,697	7,331	6,765	5,493	na	na
National Biodefense Analysis and Countermeasures Center	37,598	39,003	42,330	44,968	45,870	2.0
National Cybersecurity Center of Excellence	19,556	22,205	23,557	33,671	27,955	-17.0
National Defense Research Institute	57,743	67,647	64,134	66,170	61,097	-7.7
National Renewable Energy Laboratory	388,500	455,016	511,585	559,151	603,356	7.9
National Security Engineering Center	1,078,610	1,124,861	1,143,701	1,468,298	1,286,520	-12.4
Oak Ridge National Laboratory	1,399,445	1,470,372	1,632,684	1,760,578	1,803,543	2.4
Pacific Northwest National Laboratory	956,193	1,012,136	1,071,249	1,168,268	1,294,614	10.8
Project Air Force	48,858	48,325	46,936	47,966	46,517	-3.0
Savannah River National Laboratory ^c	na	na	na	191,803	182,654	-4.8
Science and Technology Policy Institute	8,086	9,080	9,256	9,784	10,593	8.3
Systems and Analyses Center	168,034	177,948	171,335	173,792	201,338	15.8
Industry-administered FFRDCs	7,838,917	8,279,752	8,597,506	8,992,198	10,187,121	13.3
Frederick National Laboratory for Cancer Research	748,500	751,452	745,726	861,605	904,182	4.9
Lawrence Livermore National Laboratory	1,386,687	1,517,429	1,558,071	1,613,673	1,659,808	2.9
Los Alamos National Laboratory	2,145,232	2,461,275	2,722,375	2,974,164	3,811,602	28.2
Sandia National Laboratories	3,009,105	3,373,217	3,395,241	3,542,756	3,811,529	7.6

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FFRDC	2018	2019	2020	2021	2022	% change 2021–22
Savannah River National Laboratory ^c	154,281	176,379	176,093	na	na	na

NA = not available; na = not applicable.

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 the National Radio Astronomy Observatory included the expenditures for the Green Bank Observatory. The Green Bank Observatory began reporting separately on the FY 2021 survey.

^b The Judiciary Modernization Engineering Center was decertified as an FFRDC on 31 January 2021.

^c In FY 2021, Savannah River National Laboratory acquired a new nonprofit administrator: Battelle Savannah River Alliance, LLC. Prior to the FY 2021 collection, Savannah River National Laboratory was administered by an industrial firm administrator: Savannah River Nuclear Solutions, LLC.

Source(s):

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