

Table 4**R&D expenditures at federally funded research and development centers, by FFRDC: FYs 2019–23**

(Thousands of current dollars and percent change)

FFRDC	2019	2020	2021	2022	2023	% change 2022–23
All FFRDCs	22,737,500	23,514,241	24,921,476	26,006,971	29,316,897	12.7
Aerospace Federally Funded Research and Development Center	1,065,989	1,114,741	1,128,241	1,152,833	1,259,428	9.2
Ames Laboratory	33,612	32,844	34,214	38,520	40,638	5.5
Argonne National Laboratory	810,693	859,658	856,568	962,973	1,234,635	28.2
Arroyo Center	37,956	35,248	38,304	40,856	42,433	3.9
Brookhaven National Laboratory	590,470	595,466	637,658	655,988	691,417	5.4
Center for Advanced Aviation System Development	174,123	180,634	230,484	189,490	186,163	-1.8
Center for Communications and Computing	68,371	67,072	65,255	74,759	77,391	3.5
Center for Enterprise Modernization	174,712	190,408	263,661	235,436	258,155	9.6
Center for Naval Analyses	96,697	95,874	96,391	93,567	96,103	2.7
Center for Nuclear Waste Regulatory Analyses	6,987	6,762	5,630	4,323	4,405	1.9
CMS Alliance to Modernize Healthcare	213,369	228,162	348,269	286,693	281,709	-1.7
Fermi National Accelerator Laboratory	334,258	300,002	319,051	330,294	402,122	21.7
Frederick National Laboratory for Cancer Research	751,452	745,726	861,605	904,182	929,754	2.8
Green Bank Observatory ^a	NA	NA	8,629	10,752	12,326	14.6
Homeland Security Operational Analysis Center	54,751	44,736	34,888	52,984	66,264	25.1
Homeland Security Systems Engineering and Development Institute	115,813	136,874	183,588	183,261	217,908	18.9
Idaho National Laboratory	478,324	494,094	516,691	637,579	653,100	2.4
Jet Propulsion Laboratory	2,709,063	2,638,412	2,388,355	2,417,556	2,671,305	10.5
Judiciary Engineering and Modernization Center ^b	7,331	6,765	5,493	na	na	na
Lawrence Berkeley National Laboratory	872,237	916,082	966,972	1,031,716	1,190,504	15.4
Lawrence Livermore National Laboratory	1,517,429	1,558,071	1,613,673	1,659,808	2,110,938	27.2
Lincoln Laboratory	1,103,870	1,115,927	1,136,133	1,142,615	1,265,060	10.7
Los Alamos National Laboratory	2,461,275	2,722,375	2,974,164	3,294,559	3,768,323	14.4
National Biodefense Analysis and Countermeasures Center	39,003	42,330	44,968	45,870	41,321	-9.9
National Center for Atmospheric Research	199,476	188,484	181,010	188,238	210,233	11.7
National Cybersecurity Center of Excellence	22,205	23,557	33,671	27,955	23,010	-17.7
National Defense Research Institute	67,647	64,134	66,170	61,097	67,157	9.9
National Radio Astronomy Observatory	101,901	100,078	94,202	92,476	102,863	11.2
National Renewable Energy Laboratory	455,016	511,585	559,151	603,356	718,852	19.1
National Security Engineering Center	1,124,861	1,143,701	1,468,298	1,286,520	1,370,949	6.6
National Solar Observatory	15,931	16,892	17,684	33,849	39,856	17.7
NSF's National Optical-Infrared Astronomy Research Laboratory (NSF's NOIRLab)	38,262	72,686	75,251	81,505	94,257	15.6
Oak Ridge National Laboratory	1,470,372	1,632,684	1,760,578	1,803,543	2,019,259	12.0
Pacific Northwest National Laboratory	1,012,136	1,071,249	1,168,268	1,294,614	1,449,496	12.0
Princeton Plasma Physics Laboratory	91,271	107,662	115,505	120,347	131,042	8.9
Project Air Force	48,325	46,936	47,966	46,517	48,729	4.8
Sandia National Laboratories	3,373,217	3,395,241	3,542,756	3,811,529	4,275,484	12.2
Savannah River National Laboratory	176,379	176,093	191,803	182,654	244,736	34.0
Science and Technology Policy Institute	9,080	9,256	9,784	10,593	9,977	-5.8
SLAC National Accelerator Laboratory	368,938	382,264	396,780	432,078	483,193	11.8
Software Engineering Institute	140,954	141,291	120,443	129,316	130,141	0.6
Systems and Analyses Center	177,948	171,335	173,792	201,338	224,574	11.5
Thomas Jefferson National Accelerator Facility	125,796	130,850	139,479	152,832	171,687	12.3

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 include 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.

Source(s):

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