

**Table 4. R&D expenditures at federally funded research and development centers, by FFRDC: FYs 2020–24**

(Thousands of current dollars and percent change)

FFRDC	2020	2021	2022	2023	2024	% change 2023–24
All FFRDCs	23,514,241	24,921,476	26,006,971	29,316,897	31,724,628	7.6
Aerospace Federally Funded Research and Development Center	1,114,741	1,128,241	1,152,833	1,259,428	1,318,429	4.5
Ames Laboratory	32,844	34,214	38,520	40,638	39,563	-2.7
Argonne National Laboratory	859,658	856,568	962,973	1,234,635	1,106,000	-11.6
Arroyo Center	35,248	38,304	40,856	42,433	37,714	-12.5
Brookhaven National Laboratory	595,466	637,658	655,988	691,417	760,512	9.1
Center for Advanced Aviation System Development	180,634	230,484	189,490	186,163	186,463	0.2
Center for Communications and Computing	67,072	65,255	74,759	77,391	85,168	9.1
Center for Enterprise Modernization	190,408	263,661	235,436	258,155	281,401	8.3
Center for Naval Analyses	95,874	96,391	93,567	96,103	100,011	3.9
Center for Nuclear Waste Regulatory Analyses	6,762	5,630	4,323	4,405	5,031	12.4
CMS Alliance to Modernize Healthcare	228,162	348,269	286,693	281,709	248,842	-13.2
Fermi National Accelerator Laboratory	300,002	319,051	330,294	402,122	425,393	5.5
Frederick National Laboratory for Cancer Research	745,726	861,605	904,182	929,754	893,491	-4.1
Green Bank Observatory <sup>a</sup>	NA	8,629	10,752	12,326	13,582	9.2
Homeland Security Operational Analysis Center	44,736	34,888	52,984	66,264	77,563	14.6
Homeland Security Systems Engineering and Development Institute	136,874	183,588	183,261	217,908	255,498	14.7
Idaho National Laboratory <sup>b</sup>	494,094	516,691	637,579	653,100	1,617,015	59.6
Jet Propulsion Laboratory	2,638,412	2,388,355	2,417,556	2,671,305	2,647,837	-0.9
Judiciary Engineering and Modernization Center <sup>c</sup>	6,765	5,493	na	na	na	na
Lawrence Berkeley National Laboratory	916,082	966,972	1,031,716	1,190,504	1,206,851	1.4
Lawrence Livermore National Laboratory	1,558,071	1,613,673	1,659,808	2,110,938	2,230,018	5.3
Lincoln Laboratory	1,115,927	1,136,133	1,142,615	1,265,060	1,377,063	8.1
Los Alamos National Laboratory	2,722,375	2,974,164	3,294,559	3,768,323	3,958,302	4.8
National Biodefense Analysis and Countermeasures Center	42,330	44,968	45,870	41,321	50,470	18.1
National Center for Atmospheric Research	188,484	181,010	188,238	210,233	201,507	-4.3
National Cybersecurity Center of Excellence	23,557	33,671	27,955	23,010	23,557	2.3
National Defense Research Institute	64,134	66,170	61,097	67,157	71,499	6.1
National Radio Astronomy Observatory	100,078	94,202	92,476	102,863	105,183	2.2
National Renewable Energy Laboratory	511,585	559,151	603,356	718,852	898,498	20.0
National Security Engineering Center	1,143,701	1,468,298	1,286,520	1,370,949	1,442,573	5.0
National Solar Observatory	16,892	17,684	33,849	39,856	38,632	-3.2
NSF's National Optical-Infrared Astronomy Research Laboratory (NSF's NOIRLab)	72,686	75,251	81,505	94,257	104,871	10.1
Oak Ridge National Laboratory	1,632,684	1,760,578	1,803,543	2,019,259	2,113,418	4.5
Pacific Northwest National Laboratory	1,071,249	1,168,268	1,294,614	1,449,496	1,609,117	9.9
Princeton Plasma Physics Laboratory	107,662	115,505	120,347	131,042	140,958	7.0
Project Air Force	46,936	47,966	46,517	48,729	47,810	-1.9
Sandia National Laboratories	3,395,241	3,542,756	3,811,529	4,275,484	4,634,973	7.8
Savannah River National Laboratory	176,093	191,803	182,654	244,736	253,483	3.5
Science and Technology Policy Institute	9,256	9,784	10,593	9,977	11,952	16.5
SLAC National Accelerator Laboratory	382,264	396,780	432,078	483,193	539,118	10.4
Software Engineering Institute	141,291	120,443	129,316	130,141	147,400	11.7
Systems and Analyses Center	171,335	173,792	201,338	224,574	234,871	4.4
Thomas Jefferson National Accelerator Facility	130,850	139,479	152,832	171,687	182,991	6.2

na = not applicable.

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

<sup>a</sup> 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 FY 2020, 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.

<sup>b</sup> In FY 2024, Idaho National Laboratory (INL) revised reporting methodology to align with reporting practices of other Department of Energy laboratories. INL now categorizes all work as research and development, except for manufacturing and for security and protection projects.

<sup>c</sup> 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.