

**Table 4. R&D expenditures at federally funded research and development centers, by FFRDC: FYs 2021–25**

(Thousands of current dollars and percent change)

| FFRDC                                                           | 2021       | 2022       | 2023       | 2024       | 2025       | % change 2024–25 |
|-----------------------------------------------------------------|------------|------------|------------|------------|------------|------------------|
| All FFRDCs                                                      | 24,921,476 | 26,006,971 | 29,316,897 | 31,724,628 | 31,833,205 | 0.3              |
| Aerospace Federally Funded Research and Development Center      | 1,128,241  | 1,152,833  | 1,259,428  | 1,318,429  | 1,386,475  | 5.2              |
| Ames National Laboratory                                        | 34,214     | 38,520     | 40,638     | 39,563     | 49,079     | 24.1             |
| Argonne National Laboratory                                     | 856,568    | 962,973    | 1,234,635  | 1,106,000  | 1,248,328  | 12.9             |
| Arroyo Center                                                   | 38,304     | 40,856     | 42,433     | 37,714     | 45,514     | 20.7             |
| Brookhaven National Laboratory                                  | 637,658    | 655,988    | 691,417    | 760,512    | 760,892    | 0.1              |
| Center for Advanced Aviation System Development                 | 230,484    | 189,490    | 186,163    | 186,463    | 200,867    | 7.7              |
| Center for Communications and Computing                         | 65,255     | 74,759     | 77,391     | 85,168     | 89,010     | 4.5              |
| Center for Enterprise Modernization                             | 263,661    | 235,436    | 258,155    | 281,401    | 202,634    | -28.0            |
| Center for Naval Analyses                                       | 96,391     | 93,567     | 96,103     | 100,011    | 109,637    | 9.6              |
| Center for Nuclear Waste Regulatory Analyses                    | 5,630      | 4,323      | 4,405      | 5,031      | 5,281      | 5.0              |
| CMS Alliance to Modernize Healthcare                            | 348,269    | 286,693    | 281,709    | 248,842    | 188,326    | -24.3            |
| Fermi National Accelerator Laboratory                           | 319,051    | 330,294    | 402,122    | 425,393    | 392,036    | -7.8             |
| Frederick National Laboratory for Cancer Research               | 861,605    | 904,182    | 929,754    | 893,491    | 865,189    | -3.2             |
| Green Bank Observatory <sup>a</sup>                             | 8629       | 10,752     | 12,326     | 13,582     | na         | -                |
| Homeland Security Operational Analysis Center                   | 34,888     | 52,984     | 66,264     | 77,563     | 56,663     | -26.9            |
| Homeland Security Systems Engineering and Development Institute | 183,588    | 183,261    | 217,908    | 255,498    | 162,439    | -36.4            |
| Idaho National Laboratory <sup>b</sup>                          | 516,691    | 637,579    | 653,100    | 1,617,015  | NA         | -                |
| Jet Propulsion Laboratory                                       | 2,388,355  | 2,417,556  | 2,671,305  | 2,647,837  | 2,281,569  | -13.8            |
| Judiciary Engineering and Modernization Center <sup>c</sup>     | 5,493      | na         | na         | na         | na         | -                |
| Lawrence Berkeley National Laboratory                           | 966,972    | 1,031,716  | 1,190,504  | 1,206,851  | 1,231,251  | 2.0              |
| Lawrence Livermore National Laboratory                          | 1,613,673  | 1,659,808  | 2,110,938  | 2,230,018  | 2,179,730  | -2.3             |
| Lincoln Laboratory                                              | 1,136,133  | 1,142,615  | 1,265,060  | 1,377,063  | 1,504,118  | 9.2              |
| Los Alamos National Laboratory                                  | 2,974,164  | 3,294,559  | 3,768,323  | 3,958,302  | 4,076,960  | 3.0              |
| National Biodefense Analysis and Countermeasures Center         | 44,968     | 45,870     | 41,321     | 50,470     | 44,266     | -12.3            |
| National Cybersecurity Center of Excellence                     | 33,671     | 27,955     | 23,010     | 23,557     | 29,616     | 25.7             |
| National Defense Research Institute                             | 66,170     | 61,097     | 67,157     | 71,499     | 79,304     | 10.9             |
| National Radio Astronomy Observatory                            | 94,202     | 92,476     | 102,863    | 105,183    | 129,001    | 22.6             |
| National Renewable Energy Laboratory                            | 559,151    | 603,356    | 718,852    | 898,498    | 879,428    | -2.1             |
| National Security Engineering Center                            | 1,468,298  | 1,286,520  | 1,370,949  | 1,442,573  | 1,504,115  | 4.3              |
| National Solar Observatory                                      | 17,684     | 33,849     | 39,856     | 38,632     | 39,822     | 3.1              |
| NSF National Center for Atmospheric Research                    | 181,010    | 188,238    | 210,233    | 201,507    | 213,463    | 5.9              |
| NSF National Optical-Infrared Astronomy Research Laboratory     | 75,251     | 81,505     | 94,257     | 104,871    | 117,630    | 12.2             |
| Oak Ridge National Laboratory                                   | 1,760,578  | 1,803,543  | 2,019,259  | 2,113,418  | 2,286,846  | 8.2              |
| Pacific Northwest National Laboratory                           | 1,168,268  | 1,294,614  | 1,449,496  | 1,609,117  | 1,630,715  | 1.3              |
| Princeton Plasma Physics Laboratory                             | 115,505    | 120,347    | 131,042    | 140,958    | 138,610    | -1.7             |
| Project Air Force                                               | 47,966     | 46,517     | 48,729     | 47,810     | 54,987     | 15.0             |
| Sandia National Laboratories                                    | 3,542,756  | 3,811,529  | 4,275,484  | 4,634,973  | 4,668,417  | 0.7              |
| Savannah River National Laboratory                              | 191,803    | 182,654    | 244,736    | 253,483    | 249,166    | -1.7             |
| Science and Technology Policy Institute                         | 9,784      | 10,593     | 9,977      | 11,952     | 8,350      | -30.1            |
| SLAC National Accelerator Laboratory                            | 396,780    | 432,078    | 483,193    | 539,118    | 600,450    | 11.4             |
| Software Engineering Institute                                  | 120,443    | 129,316    | 130,141    | 147,400    | 157,001    | 6.5              |
| Systems and Analyses Center                                     | 173,792    | 201,338    | 224,574    | 234,871    | 248,119    | 5.6              |
| Thomas Jefferson National Accelerator Facility                  | 139,479    | 152,832    | 171,687    | 182,991    | 185,670    | 1.5              |

na = not applicable. NA = not available; imputed data not reported at this level.

FFRDC = federally funded research and development center.

<sup>a</sup> Green Bank Observatory split from the National Radio Astronomy Observatory into separate FFRDCs on 1 October 2016; however, its expenditures continued to be reported under the National Radio Astronomy Observatory for FYs 2017–20. On 1 October 2024, Green Bank Observatory was reincorporated into the National Radio Astronomy Observatory and is no longer a separate FFRDC.

<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 R&D, except for manufacturing and security or 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.