

TABLE 6

Total and federally financed R&D expenditures at federally funded research and development centers, by type of R&D and FFRDC: FY 2019

(Dollars in thousands)

| FFRDC | Sponsor | Location | Total | | | | Federally financed | | | |
|---|-----------------------|---------------------|----------------------|----------------|------------------|--------------------------|----------------------|----------------|------------------|--------------------------|
| | | | All R&D expenditures | Basic research | Applied research | Experimental development | All R&D expenditures | Basic research | Applied research | Experimental development |
| All FFRDCs | - | - | 22,737,500 | 4,535,637 | 9,200,139 | 9,001,724 | 22,338,855 | 4,455,413 | 9,014,286 | 8,869,156 |
| University-administered FFRDCs | - | - | 6,946,262 | 2,291,759 | 1,833,021 | 2,821,482 | 6,796,696 | 2,222,599 | 1,782,136 | 2,791,961 |
| Ames Laboratory | DOE | Ames, IA | 33,612 | 10,088 | 22,632 | 892 | 33,211 | 10,084 | 22,235 | 892 |
| Argonne National Laboratory | DOE | Argonne, IL | 810,693 | 175,065 | 367,255 | 268,373 | 787,513 | 175,065 | 346,334 | 266,114 |
| Fermi National Accelerator Laboratory | DOE | Batavia, IL | 334,258 | 333,523 | 735 | 0 | 333,460 | 332,798 | 662 | 0 |
| Jet Propulsion Laboratory | NASA | Pasadena, CA | 2,709,063 | 270,906 | 270,906 | 2,167,251 | 2,709,063 | 270,906 | 270,906 | 2,167,251 |
| Lawrence Berkeley National Laboratory | DOE | Berkeley, CA | 872,237 | 715,099 | 132,014 | 25,124 | 807,967 | 672,843 | 113,940 | 21,184 |
| Lincoln Laboratory | DOD, OSD | Lexington, MA | 1,103,870 | 3,217 | 974,361 | 126,292 | 1,084,953 | 3,217 | 974,361 | 107,375 |
| National Center for Atmospheric Research | NSF | Boulder, CO | 199,476 | 65,525 | 33,475 | 100,476 | 187,615 | 61,900 | 28,481 | 97,234 |
| National Radio Astronomy Observatory | NSF | Charlottesville, VA | 101,901 | 88,000 | 1,212 | 12,689 | 99,881 | 87,450 | 891 | 11,540 |
| National Solar Observatory | NSF | Sunspot, NM | 15,931 | 15,931 | 0 | 0 | 15,892 | 15,892 | 0 | 0 |
| NSF's National Optical-Infrared Astronomy Research Laboratory (NSF's NOIRLab) | NSF | Tucson, AZ | 38,262 | 38,262 | 0 | 0 | 28,760 | 28,760 | 0 | 0 |
| Princeton Plasma Physics Laboratory | DOE | Princeton, NJ | 91,271 | 90,814 | 457 | 0 | 91,119 | 90,814 | 305 | 0 |
| SLAC National Accelerator Laboratory | DOE | Menlo Park, CA | 368,938 | 350,381 | 18,557 | 0 | 352,527 | 339,923 | 12,604 | 0 |
| Software Engineering Institute | DOD, OSD | Pittsburgh, PA | 140,954 | 9,152 | 11,417 | 120,385 | 140,940 | 9,152 | 11,417 | 120,371 |
| Thomas Jefferson National Accelerator Facility | DOE | Newport News, VA | 125,796 | 125,796 | 0 | 0 | 123,795 | 123,795 | 0 | 0 |
| Nonprofit-administered FFRDCs | - | - | 7,033,162 | 1,596,555 | 2,092,525 | 3,344,082 | 6,891,730 | 1,591,010 | 2,028,873 | 3,271,847 |
| Aerospace Federally Funded Research and Development Center | DOD, Air Force | El Segundo, CA | 1,065,989 | 21,719 | 79,502 | 964,768 | 1,062,804 | 21,560 | 76,476 | 964,768 |
| Arroyo Center | DOD, Army | Santa Monica, CA | 37,956 | 0 | 37,956 | 0 | 37,956 | 0 | 37,956 | 0 |
| Brookhaven National Laboratory | DOE | Upton, NY | 590,470 | 448,707 | 85,450 | 56,313 | 561,030 | 446,847 | 76,209 | 37,974 |
| Center for Advanced Aviation System Development | DOT, FAA | McLean, VA | 174,123 | 1,129 | 16,909 | 156,085 | 152,539 | 1,107 | 16,524 | 134,908 |
| Center for Communications and Computing | DOD, NSA/CSS | Alexandria, VA | 68,371 | 17,093 | 34,186 | 17,092 | 68,371 | 17,093 | 34,186 | 17,092 |
| Center for Enterprise Modernization | Treasury/IRS, VA, SSA | McLean, VA | 174,712 | 417 | 18,684 | 155,611 | 173,127 | 413 | 18,626 | 154,088 |
| Center for Naval Analyses | DOD, Navy | Arlington, VA | 96,697 | 0 | 96,697 | 0 | 96,697 | 0 | 96,697 | 0 |
| Center for Nuclear Waste Regulatory Analyses | NRC | San Antonio, TX | 6,987 | 0 | 6,987 | 0 | 6,340 | 0 | 6,340 | 0 |
| CMS Alliance to Modernize Healthcare | HHS, CMS | Baltimore, MD | 213,369 | 227 | 34,306 | 178,836 | 213,369 | 227 | 34,306 | 178,836 |
| Homeland Security Operational Analysis Center | DHS, S&T | Pentagon City, VA | 54,751 | 0 | 54,751 | 0 | 54,751 | 0 | 54,751 | 0 |

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(Dollars in thousands)

| FFRDC | Sponsor | Location | Total | | | | Federally financed | | | |
|---|----------------|----------------------------|----------------------|----------------|------------------|--------------------------|----------------------|----------------|------------------|--------------------------|
| | | | All R&D expenditures | Basic research | Applied research | Experimental development | All R&D expenditures | Basic research | Applied research | Experimental development |
| Homeland Security Systems Engineering and Development Institute | DHS, S&T | McLean, VA | 115,813 | 144 | 2,494 | 113,175 | 115,813 | 144 | 2,494 | 113,175 |
| Judiciary Engineering and Modernization Center | U.S. Courts | McLean, VA | 7,331 | 17 | 306 | 7,008 | 7,331 | 17 | 306 | 7,008 |
| National Biodefense Analysis and Countermeasures Center | DHS, S&T | Frederick, MD | 39,003 | 0 | 39,003 | 0 | 39,003 | 0 | 39,003 | 0 |
| National Cybersecurity Center of Excellence | NIST | Rockville, MD | 22,205 | 27 | 467 | 21,711 | 22,205 | 27 | 467 | 21,711 |
| National Defense Research Institute | DOD, OSD | Santa Monica, CA | 67,647 | 0 | 67,647 | 0 | 67,647 | 0 | 67,647 | 0 |
| National Renewable Energy Laboratory | DOE | Golden, CO | 455,016 | 40,592 | 252,714 | 161,710 | 405,923 | 40,592 | 223,258 | 142,073 |
| National Security Engineering Center | DOD,OSD | Bedford, MA/ McLean, VA | 1,124,861 | 27,703 | 159,469 | 937,689 | 1,123,616 | 27,684 | 159,364 | 936,568 |
| Oak Ridge National Laboratory | DOE | Oak Ridge, TN | 1,470,372 | 847,330 | 623,042 | 0 | 1,454,122 | 847,330 | 606,792 | 0 |
| Pacific Northwest National Laboratory | DOE | Richland, WA | 1,012,136 | 191,450 | 246,602 | 574,084 | 993,733 | 187,969 | 242,118 | 563,646 |
| Project Air Force | DOD, Air Force | Santa Monica, CA | 48,325 | 0 | 48,325 | 0 | 48,325 | 0 | 48,325 | 0 |
| Science and Technology Policy Institute | NSF | Washington, DC | 9,080 | 0 | 9,080 | 0 | 9,080 | 0 | 9,080 | 0 |
| Systems and Analyses Center | DOD, OSD | Alexandria, VA | 177,948 | 0 | 177,948 | 0 | 177,948 | 0 | 177,948 | 0 |
| Industry-administered FFRDCs | - | - | 8,758,076 | 647,323 | 5,274,593 | 2,836,160 | 8,650,429 | 641,804 | 5,203,277 | 2,805,348 |
| Frederick National Laboratory for Cancer Research | HHS, NIH | Frederick, MD | 751,452 | 149,695 | 601,757 | 0 | 751,452 | 149,695 | 601,757 | 0 |
| Idaho National Laboratory | DOE | Idaho Falls, ID | 478,324 | 28,699 | 253,512 | 196,113 | 463,588 | 27,815 | 245,702 | 190,071 |
| Lawrence Livermore National Laboratory | DOE | Livermore, CA | 1,517,429 | 106,197 | 1,163,283 | 247,949 | 1,480,978 | 103,380 | 1,129,649 | 247,949 |
| Los Alamos National Laboratory | DOE | Los Alamos, NM | 2,461,275 | 196,902 | 2,239,760 | 24,613 | 2,440,514 | 195,241 | 2,220,868 | 24,405 |
| Sandia National Laboratories | DOE | Albuquerque, NM | 3,373,217 | 157,011 | 928,091 | 2,288,115 | 3,340,658 | 157,011 | 918,681 | 2,264,966 |
| Savannah River National Laboratory | DOE | Aiken, SC | 176,379 | 8,819 | 88,190 | 79,370 | 173,239 | 8,662 | 86,620 | 77,957 |

CMS = Centers for Medicare and Medicaid Services; DHS = Department of Homeland Security; DOD = Department of Defense; DOE = Department of Energy; DOT = Department of Transportation; FAA = Federal Aviation Administration; FFRDC = federally funded research and development center; HHS = Department of Health and Human Services; IRS = Internal Revenue Service; NASA = National Aeronautics and Space Administration; NIH = National Institutes of Health; NIST = National Institute of Science and Technology; NRC = Nuclear Regulatory Commission; NSA/CSS = National Security Agency/Central Security Service; NSF = National Science Foundation; OSD = Office of the Secretary of Defense; S&T = Science and Technology Directorate; SSA = Social Security Administration; VA = Department of Veterans Affairs.

Source(s):

National Center for Science and Engineering Statistics, FFRDC Research and Development Survey, FY 2019.