

TABLE 6

**Total and federally financed R&D expenditures at federally funded research and development centers, by type of R&D and FFRDC: FY 2023**

(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	-	-	29,316,897	5,855,982	11,921,680	11,539,235	28,880,018	5,771,324	11,714,841	11,393,853
University-administered FFRDCs	-	-	8,179,862	3,077,984	2,085,061	3,016,817	8,010,234	3,004,289	2,029,324	2,976,621
Ames Laboratory	DOE	Ames, IA	40,638	19,651	20,140	847	40,091	19,651	19,949	491
Argonne National Laboratory	DOE	Argonne, IL	1,234,635	196,930	502,891	534,814	1,205,264	196,930	475,156	533,178
Fermi National Accelerator Laboratory	DOE	Batavia, IL	402,122	399,159	2,963	0	400,573	398,145	2,428	0
Green Bank Observatory	NSF	Green Bank, WV	12,326	11,686	295	345	11,909	11,504	74	331
Jet Propulsion Laboratory	NASA	Pasadena, CA	2,671,305	267,131	267,131	2,137,043	2,671,305	267,131	267,131	2,137,043
Lawrence Berkeley National Laboratory	DOE	Berkeley, CA	1,190,504	1,097,198	90,274	3,032	1,131,175	1,046,769	81,722	2,684
Lincoln Laboratory	DOD, OSD	Lexington, MA	1,265,060	11,972	1,130,346	122,742	1,234,615	11,972	1,130,346	92,297
National Center for Atmospheric Research	NSF	Boulder, CO	210,233	72,762	37,218	100,253	184,647	67,643	23,538	93,466
National Radio Astronomy Observatory	NSF	Charlottesville, VA	102,863	94,292	327	8,244	102,104	94,281	189	7,634
National Solar Observatory	NSF	Boulder, CO	39,856	39,856	0	0	39,719	39,719	0	0
NSF's National Optical-Infrared Astronomy Research Laboratory (NSF's NOIRLab)	NSF	Tucson, AZ	94,257	94,257	0	0	92,841	92,841	0	0
Princeton Plasma Physics Laboratory	DOE	Princeton, NJ	131,042	129,600	1,442	0	127,260	125,995	1,265	0
SLAC National Accelerator Laboratory	DOE	Menlo Park, CA	483,193	461,794	21,399	0	469,601	452,710	16,891	0
Software Engineering Institute	DOD, OSD	Pittsburgh, PA	130,141	10,009	10,635	109,497	130,141	10,009	10,635	109,497
Thomas Jefferson National Accelerator Facility	DOE	Newport News, VA	171,687	171,687	0	0	168,989	168,989	0	0
Nonprofit-administered FFRDCs	-	-	10,052,536	1,993,511	3,161,886	4,897,139	9,879,651	1,986,686	3,074,286	4,818,679
Aerospace Federally Funded Research and Development Center	DOD, Air Force	El Segundo, CA	1,259,428	27,386	132,141	1,099,901	1,251,725	27,001	124,823	1,099,901
Arroyo Center	DOD, Army	Santa Monica, CA	42,433	0	42,433	0	42,433	0	42,433	0
Brookhaven National Laboratory	DOE	Upton, NY	691,417	487,333	103,653	100,431	678,623	486,188	99,189	93,246
Center for Advanced Aviation System Development	DOT, FAA	McLean, VA	186,163	0	7,832	178,331	166,246	0	7,357	158,889
Center for Communications and Computing	DOD, NSA/CSS	Alexandria, VA	77,391	19,348	38,695	19,348	77,391	19,348	38,695	19,348
Center for Enterprise Modernization	Treasury/IRS, VA, SSA, DOC	McLean, VA	258,155	0	13,602	244,553	258,155	0	13,602	244,553
Center for Naval Analyses	DOD, Navy	Arlington, VA	96,103	0	96,103	0	96,103	0	96,103	0
Center for Nuclear Waste Regulatory Analyses	NRC	San Antonio, TX	4,405	0	4,405	0	3,467	0	3,467	0
CMS Alliance to Modernize Healthcare	HHS, CMS	Baltimore, MD	281,709	0	6,275	275,434	281,709	0	6,275	275,434
Homeland Security Operational Analysis Center	DHS, S&T	Arlington, VA	66,264	0	66,264	0	66,264	0	66,264	0
Homeland Security Systems Engineering and Development Institute	DHS, S&T	McLean, VA	217,908	0	4,849	213,059	216,456	0	4,817	211,639
Idaho National Laboratory	DOE	Idaho Falls, ID	653,100	39,187	346,142	267,771	642,971	38,579	340,774	263,618
National Biodefense Analysis and Countermeasures Center	DHS, S&T	Frederick, MD	41,321	0	41,321	0	41,321	0	41,321	0
National Cybersecurity Center of Excellence	DOC, NIST	Rockville, MD	23,010	0	525	22,485	23,010	0	525	22,485
National Defense Research Institute	DOD, OSD	Santa Monica, CA	67,157	0	67,157	0	67,157	0	67,157	0
National Renewable Energy Laboratory	DOE	Golden, CO	718,852	64,867	398,878	255,107	648,671	64,867	356,769	227,035

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National Security Engineering Center	DOD,OSD	Bedford, MA/McLean, VA	1,370,949	0	80,471	1,290,478	1,367,998	0	80,383	1,287,615
Oak Ridge National Laboratory	DOE	Oak Ridge, TN	2,019,259	1,075,698	943,561	0	2,000,646	1,075,698	924,948	0
Pacific Northwest National Laboratory	DOE	Richland, WA	1,449,496	267,455	361,931	820,110	1,424,969	262,929	355,807	806,233
Project Air Force	DOD, Air Force	Santa Monica, CA	48,729	0	48,729	0	48,729	0	48,729	0
Savannah River National Laboratory	DOE	Aiken, SC	244,736	12,237	122,368	110,131	241,518	12,076	120,759	108,683
Science and Technology Policy Institute	NSF	Washington, DC	9,977	0	9,977	0	9,977	0	9,977	0
Systems and Analyses Center	DOD, OSD	Alexandria, VA	224,574	0	224,574	0	224,112	0	224,112	0
Industry-administered FFRDCs	-	-	11,084,499	784,487	6,674,733	3,625,279	10,990,133	780,349	6,611,231	3,598,553
Frederick National Laboratory for Cancer Research	HHS, NIH	Frederick, MD	929,754	186,273	467,234	276,247	929,754	186,273	467,234	276,247
Lawrence Livermore National Laboratory	DOE	Livermore, CA	2,110,938	114,519	1,567,884	428,535	2,079,762	112,429	1,538,798	428,535
Los Alamos National Laboratory	DOE	Los Alamos, NM	3,768,323	301,465	3,429,175	37,683	3,742,718	299,417	3,405,874	37,427
Sandia National Laboratories	DOE	Albuquerque, NM	4,275,484	182,230	1,210,440	2,882,814	4,237,899	182,230	1,199,325	2,856,344

CMS = Centers for Medicare and Medicaid Services; DHS = Department of Homeland Security; DOC = Department of Commerce; 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 2023.