

TABLE 6

Total and federally financed R&D expenditures at federally funded research and development centers, by type of R&D and FFRDC: FY 2021

(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	-	-	24,921,476	5,021,363	9,951,077	9,949,036	24,509,691	4,944,919	9,765,401	9,799,371
University-administered FFRDCs	-	-	6,850,276	2,427,236	1,865,292	2,557,748	6,700,555	2,366,204	1,813,850	2,520,501
Ames Laboratory	DOE	Ames, IA	34,214	17,080	16,672	462	34,016	17,080	16,641	295
Argonne National Laboratory	DOE	Argonne, IL	856,568	171,352	405,211	280,005	832,400	171,352	382,966	278,082
Fermi National Accelerator Laboratory	DOE	Batavia, IL	319,051	317,533	1,518	0	317,812	316,686	1,126	0
Green Bank Observatory	NSF	Green Bank, WV	8,629	8,629	0	0	8,629	8,629	0	0
Jet Propulsion Laboratory	NASA	Pasadena, CA	2,388,355	238,836	238,836	1,910,683	2,388,355	238,836	238,836	1,910,683
Lawrence Berkeley National Laboratory	DOE	Berkeley, CA	966,972	799,146	141,453	26,373	910,428	757,636	129,078	23,714
Lincoln Laboratory	DOD, OSD	Lexington, MA	1,136,133	13,469	996,957	125,707	1,110,465	13,469	996,957	100,039
National Center for Atmospheric Research	NSF	Boulder, CO	181,010	49,570	31,398	100,042	161,163	45,166	22,168	93,829
National Radio Astronomy Observatory	NSF	Charlottesville, VA	94,202	82,014	574	11,614	93,313	81,940	376	10,997
National Solar Observatory	NSF	Boulder, CO	17,684	17,684	0	0	17,680	17,680	0	0
NSF's National Optical-Infrared Astronomy Research Laboratory (NSF's NOIRLab)	NSF	Tucson, AZ	75,251	75,251	0	0	73,393	73,393	0	0
Princeton Plasma Physics Laboratory	DOE	Princeton, NJ	115,505	115,068	437	0	113,591	113,337	254	0
SLAC National Accelerator Laboratory	DOE	Menlo Park, CA	396,780	374,582	22,198	0	382,252	366,842	15,410	0
Software Engineering Institute	DOD, OSD	Pittsburgh, PA	120,443	7,543	10,038	102,862	120,443	7,543	10,038	102,862
Thomas Jefferson National Accelerator Facility	DOE	Newport News, VA	139,479	139,479	0	0	136,615	136,615	0	0
Nonprofit-administered FFRDCs	-	-	8,370,508	1,728,236	2,302,607	4,339,665	8,215,876	1,722,688	2,233,492	4,259,696
Aerospace Federally Funded Research and Development Center	DOD, Air Force	El Segundo, CA	1,128,241	24,986	108,438	994,817	1,121,569	24,652	102,100	994,817
Arroyo Center	DOD, Army	Santa Monica, CA	38,304	0	38,304	0	38,304	0	38,304	0
Brookhaven National Laboratory	DOE	Upton, NY	637,658	476,421	91,598	69,639	620,000	475,993	88,512	55,495
Center for Advanced Aviation System Development	DOT, FAA	McLean, VA	230,484	0	10,632	219,852	207,828	0	9,587	198,241
Center for Communications and Computing	DOD, NSA/ CSS	Alexandria, VA	65,255	16,314	32,627	16,314	65,255	16,314	32,627	16,314
Center for Enterprise Modernization	Treasury/IRS, VA, SSA	McLean, VA	263,661	0	13,477	250,184	263,661	0	13,477	250,184
Center for Naval Analyses	DOD, Navy	Arlington, VA	96,391	0	96,391	0	96,391	0	96,391	0
Center for Nuclear Waste Regulatory Analyses	NRC	San Antonio, TX	5,630	0	5,630	0	5,233	0	5,233	0
CMS Alliance to Modernize Healthcare	HHS, CMS	Baltimore, MD	348,269	0	7,952	340,317	348,269	0	7,952	340,317
Homeland Security Operational Analysis Center	DHS, S&T	Pentagon City, VA	34,888	0	34,888	0	34,888	0	34,888	0

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Homeland Security Systems Engineering and Development Institute	DHS, S&T	McLean, VA	183,588	0	4,759	178,829	182,413	0	4,729	177,684
Judiciary Engineering and Modernization Center	U.S. Courts	McLean, VA	5,493	0	274	5,219	5,493	0	274	5,219
National Biodefense Analysis and Countermeasures Center	DHS, S&T	Frederick, MD	44,968	0	44,968	0	44,968	0	44,968	0
National Cybersecurity Center of Excellence	NIST	Rockville, MD	33,671	0	857	32,814	33,671	0	857	32,814
National Defense Research Institute	DOD, OSD	Santa Monica, CA	66,170	0	66,170	0	66,170	0	66,170	0
National Renewable Energy Laboratory	DOE	Golden, CO	559,151	49,705	310,638	198,808	497,047	49,705	273,376	173,966
National Security Engineering Center	DOD, OSD	Bedford, MA/ McLean, VA	1,468,298	0	87,886	1,380,412	1,463,965	0	87,627	1,376,338
Oak Ridge National Laboratory	DOE	Oak Ridge, TN	1,760,578	940,199	820,379	0	1,746,756	940,199	806,557	0
Pacific Northwest National Laboratory	DOE	Richland, WA	1,168,268	220,611	295,197	652,460	1,142,925	215,825	288,793	638,307
Project Air Force	DOD, Air Force	Santa Monica, CA	47,966	0	47,966	0	47,966	0	47,966	0
Science and Technology Policy Institute	NSF	Washington, DC	9,784	0	9,784	0	9,784	0	9,784	0
Systems and Analyses Center	DOD, OSD	Alexandria, VA	173,792	0	173,792	0	173,320	0	173,320	0
Industry-administered FFRDCs	-	-	9,700,692	865,891	5,783,178	3,051,623	9,593,260	856,027	5,718,059	3,019,174
Frederick National Laboratory for Cancer Research	HHS, NIH	Frederick, MD	861,605	164,556	697,049	0	861,605	164,556	697,049	0
Idaho National Laboratory	DOE	Idaho Falls, ID	516,691	31,002	273,846	211,843	503,977	30,239	267,108	206,630
Lawrence Livermore National Laboratory	DOE	Livermore, CA	1,613,673	138,694	1,155,340	319,639	1,580,263	131,615	1,129,009	319,639
Los Alamos National Laboratory	DOE	Los Alamos, NM	2,974,164	237,933	2,706,490	29,741	2,950,380	236,030	2,684,846	29,504
Sandia National Laboratories	DOE	Albuquerque, NM	3,542,756	284,116	854,551	2,404,089	3,507,607	284,116	845,333	2,378,158
Savannah River National Laboratory	DOE	Aiken, SC	191,803	9,590	95,902	86,311	189,428	9,471	94,714	85,243

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 2021.