

TABLE 6

## Total and federally financed R&amp;D expenditures at federally funded research and development centers, by type of R&amp;D and FFRDC: FY 2020

(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	-	-	23,514,241	4,711,829	9,433,095	9,369,317	23,133,501	4,637,198	9,256,845	9,239,458
University-administered FFRDCs	-	-	7,003,132	2,332,938	1,862,217	2,807,977	6,867,741	2,271,407	1,822,482	2,773,852
Ames Laboratory	DOE	Ames, IA	32,844	10,484	21,909	451	32,302	10,185	21,775	342
Argonne National Laboratory	DOE	Argonne, IL	859,658	158,106	407,691	293,861	840,237	158,106	389,481	292,650
Fermi National Accelerator Laboratory	DOE	Batavia, IL	300,002	298,918	1,084	0	299,811	298,788	1,023	0
Jet Propulsion Laboratory	NASA	Pasadena, CA	2,638,412	263,841	263,841	2,110,730	2,638,412	263,841	263,841	2,110,730
Lawrence Berkeley National Laboratory	DOE	Berkeley, CA	916,082	765,916	111,191	38,975	862,965	727,998	99,650	35,317
Lincoln Laboratory	DOD, OSD	Lexington, MA	1,115,927	6,283	991,054	118,590	1,093,081	6,283	991,054	95,744
National Center for Atmospheric Research	NSF	Boulder, CO	188,484	46,205	29,682	112,597	175,316	41,995	25,583	107,738
National Radio Astronomy Observatory	NSF	Charlottesville, VA	100,078	86,633	653	12,792	98,458	86,612	496	11,350
National Solar Observatory	NSF	Sunspot, NM	16,892	16,892	0	0	16,472	16,472	0	0
NSF's National Optical-Infrared Astronomy Research Laboratory	NSF	Tucson, AZ	72,686	72,686	0	0	69,685	69,685	0	0
Princeton Plasma Physics Laboratory	DOE	Princeton, NJ	107,662	107,117	545	0	103,856	103,423	433	0
SLAC National Accelerator Laboratory	DOE	Menlo Park, CA	382,264	360,734	21,530	0	366,936	350,827	16,109	0
Software Engineering Institute	DOD, OSD	Pittsburgh, PA	141,291	8,273	13,037	119,981	141,291	8,273	13,037	119,981
Thomas Jefferson National Accelerator Facility	DOE	Newport News, VA	130,850	130,850	0	0	128,919	128,919	0	0
Nonprofit-administered FFRDCs	-	-	7,419,509	1,695,120	2,054,301	3,670,088	7,279,066	1,689,379	1,982,799	3,606,888
Aerospace Federally Funded Research and Development Center	DOD, Air Force	El Segundo, CA	1,114,741	25,708	95,570	993,463	1,109,291	25,435	90,393	993,463
Arroyo Center	DOD, Army	Santa Monica, CA	35,248	0	35,248	0	35,248	0	35,248	0
Brookhaven National Laboratory	DOE	Upton, NY	595,466	451,180	88,238	56,048	569,925	449,041	77,089	43,795
Center for Advanced Aviation System Development	DOT, FAA	McLean, VA	180,634	0	8,189	172,445	163,497	0	7,412	156,085
Center for Communications and Computing	DOD, NSA/CSS	Alexandria, VA	67,072	16,768	33,536	16,768	67,072	16,768	33,536	16,768
Center for Enterprise Modernization	Treasury/IRS, VA, SSA	McLean, VA	190,408	0	10,091	180,317	190,408	0	10,091	180,317
Center for Naval Analyses	DOD, Navy	Arlington, VA	95,874	0	95,874	0	95,874	0	95,874	0
Center for Nuclear Waste Regulatory Analyses	NRC	San Antonio, TX	6,762	0	6,762	0	6,359	0	6,359	0
CMS Alliance to Modernize Healthcare	HHS, CMS	Baltimore, MD	228,162	0	5,375	222,787	228,162	0	5,375	222,787
Homeland Security Operational Analysis Center	DHS, S&T	Pentagon City, VA	44,736	0	44,736	0	44,736	0	44,736	0
Homeland Security Systems Engineering and Development Institute	DHS, S&T	McLean, VA	136,874	0	3,560	133,314	135,713	0	3,530	132,183
Judiciary Engineering and Modernization Center	U.S. Courts	McLean, VA	6,765	0	354	6,411	6,708	0	351	6,357
National Biodefense Analysis and Countermeasures Center	DHS, S&T	Frederick, MD	42,330	0	42,330	0	42,330	0	42,330	0
National Cybersecurity Center of Excellence	NIST	Rockville, MD	23,557	0	614	22,943	23,557	0	614	22,943
National Defense Research Institute	DOD, OSD	Santa Monica, CA	64,134	0	64,134	0	64,134	0	64,134	0
National Renewable Energy Laboratory	DOE	Golden, CO	511,585	45,634	284,134	181,817	456,336	45,634	250,985	159,717
National Security Engineering Center	DOD, OSD	Bedford, MA/ McLean, VA	1,143,701	0	62,072	1,081,629	1,142,013	0	61,980	1,080,033

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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
Oak Ridge National Laboratory	DOE	Oak Ridge, TN	1,632,684	949,293	683,391	0	1,616,580	949,293	667,287	0
Pacific Northwest National Laboratory	DOE	Richland, WA	1,071,249	206,537	262,566	602,146	1,053,982	203,208	258,334	592,440
Project Air Force	DOD, Air Force	Santa Monica, CA	46,936	0	46,936	0	46,936	0	46,936	0
Science and Technology Policy Institute	NSF	Washington, DC	9,256	0	9,256	0	9,256	0	9,256	0
Systems and Analyses Center	DOD, OSD	Alexandria, VA	171,335	0	171,335	0	170,949	0	170,949	0
Industry-administered FFRDCs	-	-	9,091,600	683,771	5,516,577	2,891,252	8,986,694	676,412	5,451,564	2,858,718
Frederick National Laboratory for Cancer Research	HHS, NIH	Frederick, MD	745,726	143,010	602,716	0	745,726	143,010	602,716	0
Idaho National Laboratory	DOE	Idaho Falls, ID	494,094	29,647	261,869	202,578	481,146	28,869	255,007	197,270
Lawrence Livermore National Laboratory	DOE	Livermore, CA	1,558,071	123,313	1,125,217	309,541	1,526,467	118,541	1,098,385	309,541
Los Alamos National Laboratory	DOE	Los Alamos, NM	2,722,375	217,790	2,477,361	27,224	2,701,388	216,111	2,458,263	27,014
Sandia National Laboratories	DOE	Albuquerque, NM	3,395,241	161,207	961,368	2,272,666	3,358,481	161,207	950,450	2,246,824
Savannah River National Laboratory	DOE	Aiken, SC	176,093	8,804	88,046	79,243	173,486	8,674	86,743	78,069

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 2020.