



FFRDC Research and Development Expenditures: Fiscal Year 2011

Detailed Statistical Tables | NSF 13-315 | March 2013

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General Notes

The data presented in this report were compiled from the National Science Foundation (NSF) FY 2011 Federally Funded Research and Development Center (FFRDC) Research and Development Survey. ICF International currently conducts the survey under contract to NSF.

The reference period of this annual survey is the fiscal year of the surveyed FFRDC. The survey collects the separately budgeted R&D expenditures by source of funding and type of cost reported by FFRDCs. The FFRDC survey is administered in conjunction with the Higher Education Research and Development (HERD) Survey, previously the Survey of Research and Development Expenditures at Universities and Colleges (Academic R&D Survey). Prior to FY 2009 the resulting FFRDC data were published in the Academic R&D Expenditures series of detailed statistical tables. The FY 2008 FFRDC data were published both in the Academic R&D Expenditures report and separately in a FY 2008 report, establishing a new detailed statistical tables series solely for FFRDC data. Terms used are defined below.

- *Separately budgeted R&D expenditures.* All funds expended for activities specifically organized to produce research outcomes. These activities are either commissioned by an agency external to the FFRDC or are separately budgeted by the FFRDC.
- *Expenditures.* Funds actually spent by the FFRDC during its fiscal year.
- *Federally Funded Research and Development Centers.* R&D-performing organizations that range in organizational structure from traditional contractor-owned/contractor-operated or government-owned/contractor-operated to structures in which degrees of contractor/government control and ownership vary. FFRDCs are formed to achieve particular federal R&D objectives that cannot be met as effectively by existing organizations.

Data presented in trend tables were compiled from the most recently completed survey cycle. Prior-year data have been reviewed for consistency with current-year responses and, when necessary, revised in consultation with respondents. FFRDCs revise data from previous years when important changes occur in reporting practices and program classifications, and only the latest tables incorporate such changes. For accurate historical data, use only the most recently published detailed statistical tables.

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FFRDC Research and Development Survey

Table **R&D expenditures**

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TABLE 1. Total and federally financed R&D expenditures at federally funded research and development centers, by character of work and type of FFRDC: FY 2010–11

(Dollars in thousands)

Type of FFRDC	2010				2011			
	All R&D expenditures	Basic research	Applied research	Development	All R&D expenditures ^a	Basic research	Applied research	Development
Total R&D, all FFRDCs	18,044,105	6,642,111	5,184,927	6,217,067	17,808,443	6,567,716	5,165,561	6,075,166
University-administered FFRDCs	5,329,620	2,194,401	1,266,483	1,868,736	5,270,323	2,230,323	1,295,813	1,744,187
Nonprofit-administered FFRDCs	5,431,352	1,567,147	1,657,928	2,206,277	5,532,912	1,588,759	1,657,196	2,286,957
Industry-administered FFRDCs	7,283,133	2,880,563	2,260,516	2,142,054	7,005,208	2,748,634	2,212,552	2,044,022
Federally financed R&D, all FFRDCs	17,590,588	6,472,795	5,001,486	6,116,307	17,385,295	6,423,347	4,971,833	5,990,115
University-administered FFRDCs	5,178,035	2,093,842	1,242,156	1,842,037	5,132,389	2,144,029	1,265,097	1,723,263
Nonprofit-administered FFRDCs	5,276,747	1,537,936	1,560,869	2,177,942	5,383,354	1,575,033	1,552,305	2,256,016
Industry-administered FFRDCs	7,135,806	2,841,017	2,198,461	2,096,328	6,869,552	2,704,285	2,154,431	2,010,836

FFRDC = federally funded research and development center.

^a R&D expenditures decreased slightly in FY 2011 due to removal of expenditures for capital projects. For the purposes of this survey, capital projects are not included in the definition of R&D expenditures. In previous years some FFRDCs had been including capital expenditures in their R&D totals. Corrections were made for FY 2011 that lowered total expenditures by \$468 million. Previous years include an unknown amount of capital expenditures, estimated to be less than \$500 million per year.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, FFRDC Research and Development Survey.

TABLE 2. R&D expenditures at university-administered federally funded research and development centers, by character of work: FY 1953–2011

(Dollars in millions)

Fiscal year	All R&D expenditures	Basic research		Applied research and development	
		Amount	Percent	Amount	Percent
1953	121	33	27.3	88	72.7
1954	141	39	27.7	102	72.3
1955	180	49	27.2	131	72.8
1956	194	51	26.3	143	73.7
1957	240	65	27.1	175	72.9
1958	293	78	26.6	215	73.4
1959	338	92	27.2	246	72.8
1960	360	97	26.9	263	73.1
1961	410	115	28.0	295	72.0
1962	470	136	28.9	334	71.1
1963	530	159	30.0	371	70.0
1964	629	191	30.4	438	69.6
1965	629	208	33.1	421	66.9
1966	630	227	36.0	403	64.0
1967	673	250	37.1	423	62.9
1968	719	276	38.4	443	61.6
1969	725	275	37.9	450	62.1
1970	737	269	36.5	468	63.5
1971	716	260	36.3	456	63.7
1972	753	244	32.4	509	67.6
1973	817	296	36.2	521	63.8
1974	865	390	45.1	475	54.9
1975	987	439	44.5	548	55.5
1976	1,147	512	44.6	635	55.4
1977	1,384	600	43.4	784	56.6
1978	1,717	na	na	na	na
1979	1,935	1,022	52.8	913	47.2
1980	2,246	1,132	50.4	1,114	49.6
1981	2,486	1,270	51.1	1,216	48.9
1982	2,479	1,327	53.5	1,152	46.5
1983	2,737	1,484	54.2	1,253	45.8
1984	3,150	1,690	53.6	1,461	46.4
1985	3,523	1,765	50.1	1,758	49.9
1986	3,895	1,876	48.2	2,018	51.8
1987	4,206	2,033	48.3	2,173	51.7
1988	4,531	2,245	49.6	2,285	50.4
1989	4,730	2,352	49.7	2,377	50.3
1990	4,832	2,428	50.2	2,404	49.8
1991	5,078	2,595	51.1	2,484	48.9
1992	5,247	2,843	54.2	2,404	45.8
1993	5,295	2,938	55.5	2,357	44.5
1994	5,271	2,998	56.9	2,273	43.1
1995	5,363	2,742	51.1	2,622	48.9
1996	5,380	2,580	48.0	2,800	52.0
1997	5,440	2,683	49.3	2,757	50.7
1998	5,531	2,636	47.7	2,895	52.3
1999	5,644	2,732	48.4	2,912	51.6
2000	5,675	2,863	50.5	2,812	49.5
2001	5,944	2,906	48.9	3,038	51.1
2002	7,069	3,698	52.3	3,371	47.7

TABLE 2. R&D expenditures at university-administered federally funded research and development centers, by character of work: FY 1953–2011

(Dollars in millions)

Fiscal year	All R&D expenditures	Basic research		Applied research and development	
		Amount	Percent	Amount	Percent
2003	7,200	3,760	52.2	3,441	47.8
2004	7,603	3,706	48.7	3,898	51.3
2005	7,826	3,802	48.6	4,024	51.4
2006	7,790	3,873	49.7	3,918	50.3
2007 ^a	5,855	1,756	30.0	4,099	70.0
2008 ^b	4,702	1,628	34.6	3,073	65.4
2009	4,959	1,804	36.4	3,155	63.6
2010	5,330	2,194	41.2	3,135	58.8
2011 ^c	5,270	2,230	42.3	3,040	57.7

na = not applicable; separate data for basic research and applied R&D were not collected for FY 1978.

^a Prior to FY 2007 Los Alamos National Laboratory was administered by University of California. On 1 June 2006 administration was transferred to Los Alamos National Security LLC, an industrial firm administrator.

^b Prior to FY 2008 Lawrence Livermore National Laboratory was administered by University of California. On 1 October 2007 administration was transferred to Lawrence Livermore National Security LLC, an industrial firm administrator.

^c R&D expenditures decreased slightly in FY 2011 due to removal of expenditures for capital projects. For the purposes of this survey, capital projects are not included in the definition of R&D expenditures. In previous years some FFRDCs had been including capital expenditures in their R&D totals. Corrections were made for FY 2011 that lowered total expenditures at all FFRDCs by \$468 million. Previous years include an unknown amount of capital expenditures, estimated to be less than \$500 million per year.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, FFRDC Research and Development Survey.

TABLE 3. R&D expenditures at nonprofit-administered federally funded research and development centers, by character of work: FY 2001–11

(Dollars in millions)

Fiscal year	All R&D expenditures	Basic research		Applied research and development	
		Amount	Percent	Amount	Percent
2001	2,165	899	41.5	1,266	58.5
2002	2,271	963	42.4	1,307	57.6
2003	2,463	1,027	41.7	1,437	58.3
2004	2,586	1,037	40.1	1,548	59.9
2005	2,817	1,170	41.5	1,647	58.5
2006	2,860	1,194	41.7	1,666	58.3
2007	3,189	1,324	41.5	1,866	58.5
2008 ^a	4,598	1,369	29.8	3,230	70.2
2009	4,997	1,522	30.5	3,475	69.5
2010	5,431	1,567	28.9	3,864	71.1
2011	5,533	1,589	28.7	3,944	71.3

^a Prior to FY 2008, five FFRDCs administered by the MITRE corporation only reported internally funded R&D expenditures. After discussions with NSF in FY 2011, these five FFRDCs agreed to report all operating expenditures for FY 2008–11. The revisions added \$1,160 million to total R&D for FY 2008, \$1,192 million for FY 2009, and \$1,241 million in FY 2010.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, FFRDC Research and Development Survey.

TABLE 4. R&D expenditures at industry-administered federally funded research and development centers, by character of work: FY 2001–11

(Dollars in millions)

Fiscal year	All R&D expenditures	Basic research		Applied research and development	
		Amount	Percent	Amount	Percent
2001	1,962	70	3.6	1,892	96.4
2002	2,197	83	3.8	2,114	96.2
2003	2,463	336	13.6	2,128	86.4
2004	2,443	188	7.7	2,255	92.3
2005	2,612	137	5.3	2,474	94.7
2006	2,569	131	5.1	2,438	94.9
2007 ^a	4,781	2,217	46.4	2,564	53.6
2008 ^b	6,316	2,382	37.7	3,934	62.3
2009	6,434	2,545	39.6	3,889	60.4
2010	7,283	2,881	39.6	4,403	60.4
2011 ^c	7,005	2,749	39.2	4,257	60.8

^a Prior to FY 2007 Los Alamos National Laboratory was administered by University of California. On 1 June 2006 administration was transferred to Los Alamos National Security LLC, an industrial firm administrator.

^b Prior to FY 2008 Lawrence Livermore National Laboratory was administered by University of California. On 1 October 2007 administration was transferred to Lawrence Livermore National Security LLC, an industrial firm administrator.

^c R&D expenditures decreased slightly in FY 2011 due to removal of expenditures for capital projects. For the purposes of this survey, capital projects are not included in the definition of R&D expenditures. In previous years some FFRDCs had been including capital expenditures in their R&D totals. Corrections were made for FY 2011 that lowered total expenditures at all FFRDCs by \$468 million. Previous years include an unknown amount of capital expenditures, estimated to be less than \$500 million per year.

NOTE: Because of rounding, detail may not add to total.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, FFRDC Research and Development Survey.

TABLE 5. Total and federally financed R&D expenditures at federally funded research and development centers, by character of work and FFRDC:
FY 2011

(Dollars in thousands)

FFRDC	Total				Federally financed			
	All R&D expenditures	Basic research	Applied research	Development	All R&D expenditures	Basic research	Applied research	Development
All FFRDCs	17,808,443	6,567,716	5,165,561	6,075,166	17,385,295	6,423,347	4,971,833	5,990,115
University-administered FFRDCs	5,270,323	2,230,323	1,295,813	1,744,187	5,132,389	2,144,029	1,265,097	1,723,263
Ames Lab.	32,442	22,375	9,326	741	31,471	21,831	9,080	560
Argonne National Lab.	710,435	313,482	194,101	202,852	663,194	290,360	183,674	189,160
Fermi National Accelerator Lab.	420,119	420,119	0	0	419,583	419,583	0	0
Jet Propulsion Lab.	1,543,969	154,397	154,397	1,235,175	1,543,969	154,397	154,397	1,235,175
Lawrence Berkeley National Lab.	788,386	573,606	214,242	538	732,920	534,586	197,796	538
Lincoln Lab.	822,358	124	672,015	150,219	819,664	124	672,015	147,525
National Astronomy and Ionosphere Ctr. National Ctr. for Atmospheric Research	14,317	13,635	0	682	13,635	13,635	0	0
National Optical Astronomy Observatories	198,231	103,681	33,770	60,780	182,310	94,534	30,173	57,603
National Radio Astronomy Observatory	47,889	47,889	0	0	42,730	42,730	0	0
Princeton Plasma Physics Lab.	81,305	77,989	0	3,316	80,401	77,085	0	3,316
SLAC National Accelerator Lab.	84,863	84,854	0	9	84,352	84,352	0	0
Software Engineering Institute	327,716	327,716	0	0	320,941	320,941	0	0
Thomas Jefferson National Accelerator Facility	107,837	0	17,962	89,875	107,348	0	17,962	89,386
90,456	90,456	0	0	89,871	89,871	0	0	
Nonprofit-administered FFRDCs	5,532,912	1,588,759	1,657,196	2,286,957	5,383,354	1,575,033	1,552,305	2,256,016
Aerospace FFRDC	45,827	2,292	41,243	2,292	13,511	676	12,159	676
Arroyo Ctr.	32,180	0	32,180	0	32,180	0	32,180	0
Brookhaven National Lab. Ctr. for Advanced Aviation System Development	526,571	407,694	54,426	64,451	504,491	401,070	43,386	60,035
165,645	0	8,223	157,422	155,254	0	7,860	147,394	
Ctr. for Communications and Computing	72,600	18,150	36,300	18,150	72,600	18,150	36,300	18,150
Ctr. for Enterprise Modernization ^a	187,785	0	10,657	177,128	187,785	0	10,657	177,128
Ctr. for Naval Analyses ^b	85,165	0	85,165	0	84,562	0	84,562	0
Ctr. for Nuclear Waste Regulatory Analyses	16,377	0	16,377	0	15,871	0	15,871	0
Homeland Security Studies and Analysis Institute ^c	36,699	0	36,699	0	36,699	0	36,699	0
Homeland Security Systems Engineering and Development Institute ^c	85,154	0	2,006	83,148	85,154	0	2,006	83,148
National Biodefense Analysis and Countermeasures Ctr.	41,786	0	41,786	0	41,786	0	41,786	0
National Defense Research Institute	46,330	0	46,330	0	46,330	0	46,330	0
National Renewable Energy Lab.	386,539	22,490	92,500	271,549	370,538	22,490	76,569	271,479
National Security Engineering Ctr. ^d	941,187	0	48,979	892,208	941,187	0	48,979	892,208
Oak Ridge National Lab.	1,558,073	901,495	656,578	0	1,513,958	901,495	612,463	0
Pacific Northwest National Lab.	1,095,923	236,638	238,676	620,609	1,072,377	231,152	235,427	605,798
Project Air Force	44,171	0	44,171	0	44,171	0	44,171	0
Science and Technology Policy Institute	8,700	0	8,700	0	8,700	0	8,700	0
Studies and Analyses Ctr.	156,200	0	156,200	0	156,200	0	156,200	0
Industry-administered FFRDCs	7,005,208	2,748,634	2,212,552	2,044,022	6,869,552	2,704,285	2,154,431	2,010,836
ID National Lab.	425,072	44,632	193,833	186,607	415,020	43,577	189,249	182,194

TABLE 5. Total and federally financed R&D expenditures at federally funded research and development centers, by character of work and FFRDC:
FY 2011

(Dollars in thousands)

FFRDC	Total				Federally financed			
	All R&D expenditures	Basic research	Applied research	Development	All R&D expenditures	Basic research	Applied research	Development
Judiciary Engineering and Modernization Center	4,650	0	265	4,385	4,650	0	265	4,385
Lawrence Livermore National Lab.	1,424,993	202,094	969,180	253,719	1,380,177	199,458	927,000	253,719
Los Alamos National Lab.	2,307,197	2,307,197	0	0	2,266,539	2,266,539	0	0
National Cancer Institute at Frederick	431,600	56,000	375,600	0	431,600	56,000	375,600	0
Sandia National Labs.	2,277,166	131,985	606,409	1,538,772	2,237,036	131,985	595,052	1,509,999
Savannah River National Lab.	134,530	6,726	67,265	60,539	134,530	6,726	67,265	60,539

FFRDC = federally funded research and development center.

^a In prior-year tables Center for Enterprise Modernization was listed as Internal Revenue Service (IRS) FFRDC.

^b Character of work distribution not provided by the Center for Naval Analyses (CNA). To correct for nonresponse, NSF allocated all expenditures to applied research based on a review of CNA's publicly available research portfolio.

^c On 5 March 2009 Homeland Security Studies and Analysis Institute and Homeland Security Systems Engineering and Development Institute were created. These new FFRDCs replaced Homeland Security Institute.

^d In prior year tables National Security Engineering Center was listed as C3I FFRDC.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, FFRDC Research and Development Survey, FY 2011.

TABLE 6. R&D expenditures at federally funded research and development centers, by source of funds and FFRDC: FY 2011
(Dollars in thousands)

FFRDC	All R&D expenditures	Federal government	State and local government	Business	Nonprofit organizations	All other sources
All FFRDCs	17,808,443	17,385,295	26,744	189,951	60,506	145,947
University-administered FFRDCs	5,270,323	5,132,389	14,131	42,857	21,294	59,652
Ames Lab.	32,442	31,471	671	214	0	86
Argonne National Lab.	710,435	663,194	3,772	20,642	2,000	20,827
Fermi National Accelerator Lab.	420,119	419,583	0	165	371	0
Jet Propulsion Lab.	1,543,969	1,543,969	0	0	0	0
Lawrence Berkeley National Lab.	788,386	732,920	8,410	13,113	11,692	22,251
Lincoln Lab.	822,358	819,664	0	259	0	2,435
National Astronomy and Ionosphere Ctr.	14,317	13,635	0	0	0	682
National Ctr. for Atmospheric Research	198,231	182,310	693	7,975	7,231	22
National Optical Astronomy Observatories	47,889	42,730	0	0	0	5,159
National Radio Astronomy Observatory	81,305	80,401	0	0	0	904
Princeton Plasma Physics Lab.	84,863	84,352	0	0	0	511
SLAC National Accelerator Lab.	327,716	320,941	0	0	0	6,775
Software Engineering Institute	107,837	107,348	0	489	0	0
Thomas Jefferson National Accelerator Facility	90,456	89,871	585	0	0	0
Nonprofit-administered FFRDCs	5,532,912	5,383,354	10,094	65,079	36,389	37,996
Aerospace FFRDC	45,827	13,511	0	3,593	21,628	7,095
Arroyo Ctr.	32,180	32,180	0	0	0	0
Brookhaven National Lab.	526,571	504,491	1,826	7,326	0	12,928
Ctr. for Advanced Aviation System Development	165,645	155,254	0	0	0	10,391
Ctr. for Communications and Computing	72,600	72,600	0	0	0	0
Ctr. for Enterprise Modernization ^a	187,785	187,785	0	0	0	0
Ctr. for Naval Analyses	85,165	84,562	603	0	0	0
Ctr. for Nuclear Waste Regulatory Analyses	16,377	15,871	13	249	244	0
Homeland Security Studies and Analysis Institute ^b	36,699	36,699	0	0	0	0
Homeland Security Systems Engineering and Development Institute ^b	85,154	85,154	0	0	0	0
National Biodefense Analysis and Countermeasures Ctr.	41,786	41,786	0	0	0	0
National Defense Research Institute	46,330	46,330	0	0	0	0
National Renewable Energy Lab.	386,539	370,538	548	15,447	0	6
National Security Engineering Ctr. ^c	941,187	941,187	0	0	0	0
Oak Ridge National Lab.	1,558,073	1,513,958	630	25,495	14,517	3,473
Pacific Northwest National Lab.	1,095,923	1,072,377	6,474	12,969	0	4,103
Project Air Force	44,171	44,171	0	0	0	0
Science and Technology Policy Institute	8,700	8,700	0	0	0	0
Studies and Analyses Ctr.	156,200	156,200	0	0	0	0
Industry-administered FFRDCs	7,005,208	6,869,552	2,519	82,015	2,823	48,299
ID National Lab.	425,072	415,020	553	7,355	489	1,655
Judiciary Engineering and Modernization Ctr.	4,650	4,650	0	0	0	0
Lawrence Livermore National Lab.	1,424,993	1,380,177	1,781	7,786	159	35,090
Los Alamos National Lab.	2,307,197	2,266,539	0	40,658	0	0
National Cancer Institute at Frederick	431,600	431,600	0	0	0	0
Sandia National Labs.	2,277,166	2,237,036	185	26,216	2,175	11,554
Savannah River National Lab.	134,530	134,530	0	0	0	0

FFRDC = federally funded research and development center.

^a In prior-year tables Center for Enterprise Modernization was listed as Internal Revenue Service (IRS) FFRDC.

^b On 5 March 2009 Homeland Security Studies and Analysis Institute and Homeland Security Systems Engineering and Development Institute were created. These new FFRDCs replaced Homeland Security Institute.

^c In prior year tables National Security Engineering Center was listed as C3I FFRDC.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, FFRDC Research and Development Survey, FY 2011.

TABLE 7. Total and federally financed R&D expenditures at federally funded research and development centers, by FFRDC: FY 2008–11
(Dollars in thousands)

FFRDC	Total				Federally financed			
	2008	2009	2010	2011 ^a	2008	2009	2010	2011
All FFRDCs	15,616,390	16,390,111	18,044,105	17,808,443	15,177,347	15,942,851	17,590,588	17,385,295
University-administered FFRDCs	4,701,645	4,958,944	5,329,620	5,270,323	4,550,332	4,811,485	5,178,035	5,132,389
Ames Lab.	27,306	29,012	30,836	32,442	27,306	29,012	30,289	31,471
Argonne National Lab.	533,530	543,169	650,504	710,435	487,641	498,847	603,841	663,194
Fermi National Accelerator Lab.	340,486	376,791	402,658	420,119	336,123	374,668	402,150	419,583
Jet Propulsion Lab.	1,733,597	1,711,528	1,640,341	1,543,969	1,733,597	1,711,528	1,640,341	1,543,969
Lawrence Berkeley National Lab.	573,917	611,711	759,381	788,386	519,756	555,842	703,564	732,920
Lincoln Lab.	641,386	706,555	789,502	822,358	637,879	704,050	785,774	819,664
National Astronomy and Ionosphere Ctr.	12,586	14,738	13,203	14,317	12,418	14,032	13,084	13,635
National Ctr. for Atmospheric Research	161,130	203,627	220,328	198,231	139,667	177,877	188,960	182,310
National Optical Astronomy Observatories	55,922	56,972	57,145	47,889	50,165	52,089	52,920	42,730
National Radio Astronomy Observatory	146,098	151,396	137,607	81,305	145,953	149,960	136,748	80,401
Princeton Plasma Physics Lab.	78,154	81,113	83,932	84,863	78,039	80,985	83,521	84,352
SLAC National Accelerator Lab.	234,316	294,421	354,393	327,716	234,316	294,421	350,377	320,941
Software Engineering Institute	80,963	89,077	99,334	107,837	66,721	80,618	96,595	107,348
Thomas Jefferson National Accelerator Facility	82,254	88,834	90,456	90,456	80,751	87,556	89,871	89,871
Nonprofit-administered FFRDCs	4,598,410	4,997,292	5,431,352	5,532,912	4,451,195	4,845,821	5,276,747	5,383,354
Aerospace FFRDC	38,940	41,470	44,149	45,827	16,349	14,386	12,962	13,511
Arroyo Ctr.	23,852	27,692	28,647	32,180	23,852	27,692	28,647	32,180
Brookhaven National Lab.	480,455	569,240	535,546	526,571	459,348	545,267	515,142	504,491
Ctr. for Advanced Aviation System Development ^b	126,171	133,869	149,686	165,645	117,978	127,037	142,498	155,254
Ctr. for Communications and Computing	59,500	66,293	71,927	72,600	59,500	66,293	71,927	72,600
Ctr. for Enterprise Modernization ^{b,c}	166,894	181,958	170,460	187,785	166,894	181,958	170,460	187,785
Ctr. for Naval Analyses	106,967	109,694	109,068	85,165	94,552	95,128	93,310	84,562
Ctr. for Nuclear Waste Regulatory Analyses	17,960	16,614	15,346	16,377	17,169	15,715	14,860	15,871
Homeland Security Institute ^d	27,400	na	na	na	27,400	na	na	na
Homeland Security Studies and Analysis Institute ^d	na	32,173	33,402	36,699	na	32,173	33,402	36,699
Homeland Security Systems Engineering and Development Institute ^{b,d}	na	3,387	58,715	85,154	na	3,387	58,715	85,154
National Biodefense Analysis and Countermeasures Ctr.	12,979	19,934	50,058	41,786	12,979	19,934	50,058	41,786
National Defense Research Institute	40,051	42,265	51,652	46,330	40,051	42,265	51,652	46,330
National Renewable Energy Lab.	229,399	273,640	326,652	386,539	219,296	264,828	315,568	370,538
National Security Engineering Ctr. ^{b,e}	936,228	939,312	925,027	941,187	936,228	939,312	925,027	941,187
Oak Ridge National Lab.	1,251,336	1,259,259	1,538,412	1,558,073	1,205,784	1,217,301	1,494,690	1,513,958
Pacific Northwest National Lab.	885,984	1,064,230	1,116,648	1,095,923	859,521	1,036,883	1,091,872	1,072,377
Project Air Force	41,794	45,162	43,957	44,171	41,794	45,162	43,957	44,171
Science and Technology Policy Institute	6,000	5,100	6,000	8,700	6,000	5,100	6,000	8,700
Studies and Analyses Ctr.	146,500	166,000	156,000	156,200	146,500	166,000	156,000	156,200
Industry-administered FFRDCs	6,316,335	6,433,875	7,283,133	7,005,208	6,175,820	6,285,545	7,135,806	6,869,552
ID National Lab.	236,037	388,062	478,356	425,072	224,273	372,502	463,843	415,020
Judiciary Engineering and Modernization Ctr. ^f	na	na	na	4,650	na	na	na	4,650
Lawrence Livermore National Lab.	1,301,874	1,321,633	1,370,747	1,424,993	1,248,594	1,261,769	1,323,623	1,380,177
Los Alamos National Lab.	2,073,538	2,172,179	2,505,913	2,307,197	2,051,550	2,141,950	2,470,421	2,266,539

TABLE 7. Total and federally financed R&D expenditures at federally funded research and development centers, by FFRDC: FY 2008–11
(Dollars in thousands)

FFRDC	Total				Federally financed			
	2008	2009	2010	2011 ^a	2008	2009	2010	2011
National Cancer Institute at Frederick	509,700	378,200	643,935	431,600	509,700	378,200	643,935	431,600
Sandia National Labs.	2,076,786	2,043,509	2,157,022	2,277,166	2,023,303	2,000,832	2,106,824	2,237,036
Savannah River National Lab.	118,400	130,292	127,160	134,530	118,400	130,292	127,160	134,530

na = not applicable.

FFRDC = federally funded research and development center.

^a R&D expenditures decreased slightly in FY 2011 due to removal of expenditures for capital projects. For the purposes of this survey, capital projects are not included in the definition of R&D expenditures. In previous years some FFRDCs had been including capital expenditures in their R&D totals. Corrections were made for FY 2011 that lowered total expenditures by \$468 million. Previous years include an unknown amount of capital expenditures, estimated to be less than \$500 million per year.

^b See Appendix A, Technical Notes, for changes in reporting.

^c In prior-year tables Center for Enterprise Modernization was listed as Internal Revenue Service (IRS) FFRDC.

^d On 5 March 2009 Homeland Security Studies and Analysis Institute and Homeland Security Systems Engineering and Development Institute were created. These new FFRDCs replaced Homeland Security Institute.

^e In prior-year tables National Security Engineering Center was listed as C3I FFRDC.

^f On 2 September 2010 Judiciary Engineering and Modernization Center was created.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, FFRDC Research and Development Survey.

TABLE 8. Federally financed R&D expenditures at federally funded research and development centers funded by the American Recovery and Reinvestment Act of 2009, by source of funds and FFRDC: FY 2011

(Dollars in thousands)

FFRDC	All federal R&D expenditures	ARRA	Non-ARRA
All FFRDCs	17,385,295	852,547	16,532,748
University-administered FFRDCs	5,132,389	288,146	4,844,243
Ames Lab.	31,471	311	31,160
Argonne National Lab.	663,194	70,627	592,567
Fermi National Accelerator Lab.	419,583	26,042	393,541
Jet Propulsion Lab.	1,543,969	24,543	1,519,426
Lawrence Berkeley National Lab.	732,920	89,212	643,708
Lincoln Lab.	819,664	0	819,664
National Astronomy and Ionosphere Ctr.	13,635	0	13,635
National Ctr. for Atmospheric Research	182,310	143	182,167
National Optical Astronomy Observatories	42,730	56	42,674
National Radio Astronomy Observatory	80,401	2,461	77,940
Princeton Plasma Physics Lab.	84,352	4,711	79,641
SLAC National Accelerator Lab.	320,941	46,520	274,421
Software Engineering Institute	107,348	26	107,322
Thomas Jefferson National Accelerator Facility	89,871	23,494	66,377
Nonprofit-administered FFRDCs	5,383,354	430,018	4,953,336
Aerospace FFRDC	13,511	0	13,511
Arroyo Ctr.	32,180	0	32,180
Brookhaven National Lab.	504,491	98,108	406,383
Ctr. for Advanced Aviation System Development	155,254	0	155,254
Ctr. for Communications and Computing	72,600	0	72,600
Ctr. for Enterprise Modernization ^a	187,785	2,783	185,002
Ctr. for Naval Analyses	84,562	0	84,562
Ctr. for Nuclear Waste Regulatory Analyses	15,871	0	15,871
Homeland Security Studies and Analysis Institute ^b	36,699	0	36,699
Homeland Security Systems Engineering and Development Institute ^b	85,154	0	85,154
National Biodefense Analysis and Countermeasures Ctr.	41,786	0	41,786
National Defense Research Institute	46,330	0	46,330
National Renewable Energy Lab.	370,538	125,008	245,530
National Security Engineering Ctr. ^c	941,187	0	941,187
Oak Ridge National Lab.	1,513,958	88,611	1,425,347
Pacific Northwest National Lab.	1,072,377	115,508	956,869
Project Air Force	44,171	0	44,171
Science and Technology Policy Institute	8,700	0	8,700
Studies and Analyses Ctr.	156,200	0	156,200
Industry-administered FFRDCs	6,869,552	134,383	6,735,169
ID National Lab.	415,020	4,363	410,657
Judiciary Engineering and Modernization Ctr.	4,650	0	4,650
Lawrence Livermore National Lab.	1,380,177	6,237	1,373,940
Los Alamos National Lab.	2,266,539	101,814	2,164,725
National Cancer Institute at Frederick	431,600	0	431,600
Sandia National Labs.	2,237,036	12,008	2,225,028
Savannah River National Lab.	134,530	9,961	124,569

ARRA = American Recovery and Reinvestment Act of 2009; FFRDC = federally funded research and development center.

^a In prior-year tables Center for Enterprise Modernization was listed as Internal Revenue Service (IRS) FFRDC.

^b On 5 March 2009 Homeland Security Studies and Analysis Institute and Homeland Security Systems Engineering and Development Institute were created. These new FFRDCs replaced Homeland Security Institute.

^c In prior-year tables National Security Engineering Center was listed as C3I FFRDC.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, FFRDC Research and Development Survey, FY 2011.

Appendix A. Technical Notes

The National Science Foundation (NSF) FFRDC Research and Development Survey (FFRDC R&D Survey), previously known as the Survey of Research and Development Expenditures at FFRDCs, is the primary source of information on separately budgeted R&D expenditures within Federally Funded Research and Development Centers (FFRDCs) in the United States. Conducted annually for all FFRDCs since FY 2001, the survey collects information on R&D expenditures.

Scope of the Survey

The FY 2011 FFRDC R&D Survey was sent to each of the nation's 40 FFRDCs. Of the 40 FFRDCs, 14 are administered by academic institutions, 20 are administered by nonprofit organizations, and 6 are administered by industrial organizations.

FFRDCs are engaged in basic research, applied research, development, or management of R&D activities, either upon direct request of the government or under a broad charter from the government, but in either case under the broad monitorship of the government. FFRDCs are operated, managed, and administered as separate organizational units within a parent organization or as separately incorporated organizations. They receive their major financial support (70% or more) from the federal government, usually from one agency, and are expected to have a long-term relationship with their sponsoring agency.

FFRDCs are asked to provide R&D expenditures by source of funding and character of work. In FY 2010, NSF revised the survey to include three new questions requesting expenditures funded by the American Recovery and Reinvestment Act of 2009, expenditures by type of cost, and total operating budget.

FY 2011 Survey Frame Design

The FFRDC R&D Expenditures Survey has been an annual census of the full population of eligible FFRDCs since FY 2001. Prior to FY 2001, only FFRDCs administered by academic institutions were included in this survey. FFRDCs are identified through the NSF Master Government List of FFRDCs. NSF is responsible for maintaining the master list and queries all federal agencies annually to determine changes, additions, or deletions to the list.

Survey Instrument

Question 1 is a request for total current expenditures for separately budgeted R&D expenditures by source of funds.

Question 2 is a request for expenditures funded by the American Recovery and Reinvestment Act of 2009 (ARRA).

Question 3 is a request for federally financed and nonfederally financed expenditures that are considered basic research, applied research, and/or development.

Question 4 is a request for total current expenditures by type of cost. Cost categories include salaries, software, equipment, other direct costs, and indirect costs.

Question 5 is a request for the total operating budget of the FFRDC, excluding capital construction costs.

Data Collection

Most FFRDCs have incorporated the data that are needed to complete questions 1 and 3 into their record-keeping systems, thereby ensuring a consistent format from one year to the next. Such consistency yields the most useful statistics for time series. As a rule, the information

needed to complete the questions added to the survey in FY 2010 (questions 2, 4, and 5) can be found in the FFRDC's year-end accounting records.

The FY 2011 survey questionnaires were sent by e-mail in December 2011. Respondents could choose to submit an Adobe Portable Document Format (PDF) questionnaire downloaded from the Web or use a Web-based data collection system to respond to the survey. Every effort was made to maintain close contact with respondents to preserve both the consistency and continuity of the resulting data. Questionnaires were carefully examined for completeness upon receipt. Computerized facsimiles of the survey data were then prepared for each FFRDC; these compared the current and 2 prior years of data and noted any substantive disparities. Respondents were sent personalized e-mail messages asking them to provide any necessary revisions before the final processing and tabulation of data. These e-mail messages included a link to the FFRDC R&D Survey Web-based data collection system, allowing respondents to view and correct their data online.

Respondents were asked to explain significant differences between current-year reporting and established patterns of reporting verified for prior years. They were encouraged to correct prior-year data if needed. When respondents updated or amended figures from past years, NSF made corresponding changes to trend data in this report and to the underlying microdata database.

Response Rate and Imputation

All of the 40 FFRDCs on the NSF Master Government List of FFRDCs at the start of the FY 2011 survey cycle returned forms by April of 2012. The Center for Naval Analysis (CNA) was unable to report expenditures by character of work (question 3). All CNA expenditures, \$85,165, were allocated as applied research based on a review of CNA's publicly available research portfolio. This total represents 1.6% of all FFRDC applied research expenditures.

Data Anomalies

NSF discovered during the FY 2011 survey cycle that seven FFRDCs were including capital project expenditures in their R&D totals reported on the survey. Corrections were made for the FY 2011 survey cycle that lowered the total expenditures by \$468 million. However, previous years include an unknown amount of capital expenditures in the total. The amount is estimated to be less than \$500 million per year.

Prior to the FY 2011 survey FFRDCs administered by the MITRE Corporation had only been reporting internally funded R&D expenditures. After discussions with NSF these five FFRDCs agreed to report all FY 2011 operating expenditures for R&D and to revise FY 2008–10 data (see table 7 for specific institutions and revised totals). The revisions contributed \$1,160 million to the total R&D expenditures for FY 2008, \$1,192 million to the expenditures of FY 2009, and \$1,241 million to FY 2010.

Data Availability

Data for FY 2008 through FY 2011 of the FFRDC R&D Survey are available at <http://www.nsf.gov/statistics/ffrdc/>. Data from FY 2008 and prior years of the FFRDC R&D Survey are included in the Academic R&D Expenditures series of detailed statistical tables, available by fiscal year at <http://www.nsf.gov/statistics/rdexpenditures/>. Information from the survey is also included in the series *Science and Engineering Indicators and National Patterns of R&D Resources*, both available at <http://www.nsf.gov/statistics/>.

For more information about FFRDCs see NSF's Federally Funded R&D Centers Master Government List. Data on federal obligations to FFRDCs are available in NSF's Survey of Federal Funds for Research and Development. NSF's Survey of Graduate Students and

and Postdoctorates in Science and Engineering collects information about postdoctorates working in FFRDCs.

Appendix B. Federally Funded Research and Development Centers (FFRDCs): FY 2011

Department of Defense

Administered by universities and colleges

- Lincoln Laboratory
(Massachusetts Institute of Technology)
- Software Engineering Institute
(Carnegie Mellon University)

Administered by other nonprofit organizations

- Aerospace FFRDC
(The Aerospace Corporation)
- Arroyo Center
(RAND Corporation)
- National Security Engineering Center[1]
(MITRE Corporation)
- Center for Communications and Computing
(Institute for Defense Analyses)
- Center for Naval Analyses
(The CNA Corporation)
- National Defense Research Institute
(RAND Corporation)
- Project Air Force
(RAND Corporation)
- Studies and Analyses Center
(Institute for Defense Analyses)

Department of Energy

Administered by universities and colleges

- Ames Laboratory
(Iowa State University of Science and Technology)
- Argonne National Laboratory
(University of Chicago)
- Fermi National Accelerator Laboratory
(Fermi Research Alliance, LLC)
- Lawrence Berkeley National Laboratory
(University of California)
- Princeton Plasma Physics Laboratory
(Princeton University)
- SLAC National Accelerator Laboratory
(Leland Stanford, Jr., University)
- Thomas Jefferson National Accelerator Facility
(Jefferson Science Associates, LLC)

Administered by industrial firms

- Idaho National Laboratory
(Battelle Energy Alliance, LLC)
- Lawrence Livermore National Laboratory[2]
(Lawrence Livermore National Security, LLC)
- Los Alamos National Laboratory[3]
(Los Alamos National Security, LLC)
- Sandia National Laboratories
(Sandia Corporation, a subsidiary of Lockheed Martin Corporation)
- Savannah River National Laboratory
(Savannah River Nuclear Solutions, LLC)

Administered by other nonprofit institutions

- Brookhaven National Laboratory
(Brookhaven Science Associates, LLC)
- National Renewable Energy Laboratory
(Alliance for Sustainable Energy, LLC)
- Oak Ridge National Laboratory
(UT-Battelle, LLC)
- Pacific Northwest National Laboratory
(Battelle Memorial Institute)

Department of Health and Human Services

Administered by industrial firms

- National Cancer Institute at Frederick
(Science Applications International Corporation–Frederick, Inc.)

Department of Homeland Security

Administered by nonprofit institutions

- Homeland Security Studies and Analysis Institute[4]
(Analytic Services, Inc.)
- Homeland Security Systems Engineering and Development Institute[4]
(MITRE Corporation)
- National Biodefense Analysis and Countermeasures Center
(Battelle National Biodefense Institute)

Department of Transportation

Administered by nonprofit institutions

- Center for Advanced Aviation System Development
(MITRE Corporation)

Department of the Treasury and Department of Veterans Affairs

Administered by nonprofit institutions

- Center for Enterprise Modernization[5]
(MITRE Corporation)

National Aeronautics and Space Administration

Administered by universities and colleges

- Jet Propulsion Laboratory
(California Institute of Technology)

National Science Foundation

Administered by universities and colleges

- National Astronomy and Ionosphere Center
(Cornell University)
- National Center for Atmospheric Research
(University Corporation for Atmospheric Research)
- National Optical Astronomy Observatories
(Association of Universities for Research in Astronomy, Inc.)
- National Radio Astronomy Observatory
(Associated Universities, Inc.)

Administered by other nonprofit institutions

- Science and Technology Policy Institute
(Institute for Defense Analyses)

Nuclear Regulatory Commission

Administered by nonprofit institutions

- Center for Nuclear Waste Regulatory Analyses
(Southwest Research Institute)

United States Courts

Administered by nonprofit institutions

- Judiciary Engineering and Modernization Center[6]
(MITRE Corporation)

[1] On 25 April 2011 C3I Federally Funded Research and Development Center changed its name to the National Security Engineering Center.

[2] On 1 October 2007 Lawrence Livermore National Laboratory acquired a new industrial firm administrator (Lawrence Livermore National Security, LLC). The previous administrator was the University of California.

[3] On 1 June 2006 Los Alamos National Laboratory acquired a new industrial firm administrator (Los Alamos National Security, LLC). The previous administrator was the University of California.

[4] On 5 March 2009 the Homeland Security Studies and Analysis Institute and the Homeland Security Systems Engineering and Development Institute were created. Together these new FFRDC's replaced the Homeland Security Institute.

[5] In August 2001 the Internal Revenue Service (IRS) Federally Funded Research and Development Center was renamed the Center for Enterprise Modernization. On 1 October 2008 the Department of Veterans Affairs was designated a co-sponsor of the Center for Enterprise Modernization.

[6] On 2 September 2010 the Judiciary Engineering and Modernization Center was created.

Appendix C. Survey Instrument



FORM APPROVED
OMB No. 3145-0100
Expiration Date: 10/31/13

NATIONAL SCIENCE FOUNDATION
ARLINGTON, VA 22230
FFRDC RESEARCH AND DEVELOPMENT SURVEY
FY 2011

Please submit your survey data by February 24, 2012.

This survey collects data on research and development (R&D) expenditures at Federally Funded R&D Centers (FFRDCs). Please report R&D activities and expenditures for your organization's **2011** fiscal year.

Your participation in this survey provides important information on the national level of R&D activity. The National Science Foundation (NSF) is authorized to collect this information under the National Science Foundation Act of 1950, as amended. Your organization's response is entirely voluntary.

Questions?

Ronda Britt
National Center for Science and Engineering Statistics
National Science Foundation
rbritt@nsf.gov
(703) 292-7765

**INFORMATION COPY
DO NOT USE TO REPORT**

Response to this survey is estimated to require 6 hours. Please report your actual completion time at the end of the questionnaire. If you wish to comment on the time required to complete this survey, please contact Suzanne H. Plimpton of NSF at (703) 292-7556, or e-mail splimpto@nsf.gov.

The Web address for submitting your data:

<http://www.ffrdcsurvey.org>

Or mail this form to:

ICF International
7315 Wisconsin Avenue, Suite 400W
Bethesda, MD 20814-3202

Thank you for your participation.

Survey Definitions and Instructions

Fiscal year (FY)

Please report data for your organization's 2011 fiscal year.

Research and development (R&D) expenditures

Please include all current operating expenditures for activities specifically organized to produce R&D outcomes. This includes basic research, applied research, and development funded by external sponsors or separately budgeted and accounted for by your organization using internal funds.

Research is systematic study directed toward fuller knowledge or understanding of the subject studied.

- **Basic research** is undertaken primarily to acquire new knowledge without any particular application or use in mind.
- **Applied research** is conducted to gain the knowledge or understanding to meet a specific, recognized need.

Development is the systematic use of the knowledge or understanding gained from research and practical experience directed toward the production of useful materials, devices, systems, or methods, including the design and development of prototypes and processes.

R&D <i>includes</i> :	R&D does <i>not</i> include:
<ul style="list-style-type: none"> • Sponsored research (including federal and nonfederal sponsors) • Indirect costs associated with R&D projects • R&D equipment and software • R&D subcontract expenditures • Clinical trials • Research training grants 	<ul style="list-style-type: none"> • Outreach or training programs • R&D conducted by staff at outside institutions that is not accounted for in your financial records • Capital projects (i.e., construction or renovation of research facilities)

Question 1. How much of your total expenditures for separately budgeted research and development (R&D) came from the following sources in FY 2011? (See definition of R&D on the previous page.)

Report the **original source** of funds, when possible. For example, if you received **federal** funds from another organization, report that amount under "U.S. federal government."

Source of funds	R&D expenditures (Dollars in thousands) (for example, report \$25,342 as \$25)
<p>a. U.S. federal government Any agency of the United States government. Include federal funds passed through from another organization.</p>	\$ <input style="width: 100px; height: 20px;" type="text"/>
<p>b. State and local government Any state, county, municipality, or other local government entity in the United States, including state health agencies.</p>	\$ <input style="width: 100px; height: 20px;" type="text"/>
<p>c. Business Domestic or foreign for-profit organizations. (Report funds from a company's nonprofit foundation in row d.)</p>	\$ <input style="width: 100px; height: 20px;" type="text"/>
<p>d. Nonprofit organizations Domestic or foreign nonprofit foundations and organizations.</p>	\$ <input style="width: 100px; height: 20px;" type="text"/>
<p>e. All other sources Other sources not reported above, such as funds from foreign governments.</p>	\$ <input style="width: 100px; height: 20px;" type="text"/>
<p>f. Total¹</p>	\$ <u>TOTAL</u>

¹ Column totals are automatically generated on the Web survey.

Question 2. How much of the federal R&D expenditures reported in Question 1, row a, was funded by the American Recovery and Reinvestment Act (ARRA)?

	R&D expenditures (Dollars in thousands)
Total R&D expenditures from ARRA funds	\$ <input style="width: 100px; height: 20px;" type="text"/>

Question 3. What amounts of your FY 2011 R&D expenditures were for basic research, applied research, and development?

If possible, these categories defining the character of work should be coded at the individual project level by the principal investigator or project director. Estimates are acceptable if necessary.

See the table below this question for examples.

	R&D expenditures (Dollars in thousands)		
	(1) Federal	(2) Nonfederal	(3) Total ¹
a. Basic research			
Research undertaken primarily to acquire new knowledge without any particular application or use in mind.	\$ _____	\$ _____	\$ <u>TOTAL</u>
b. Applied research			
Research conducted to gain the knowledge or understanding to meet a specific, recognized need.	\$ _____	\$ _____	\$ <u>TOTAL</u>
c. Development			
The systematic use of the knowledge or understanding gained from research and practical experience directed toward the production of useful materials, devices, systems, or methods, including the design and development of prototypes and processes.	\$ _____	\$ _____	\$ <u>TOTAL</u>
d. Total¹			
Column 1 total should match Question 1, row a. Column 3 total should match Question 1, row f.	\$ <u>TOTAL</u>	\$ <u>TOTAL</u>	\$ <u>TOTAL</u>

¹ Row and column totals are automatically generated on the Web survey.

Examples		
Basic research	Applied research	Development
A researcher is studying the properties of human blood to determine what affects coagulation.	A researcher is conducting research on how a new chicken pox vaccine affects blood coagulation.	A researcher is conducting clinical trials to test a newly developed chicken pox vaccine for young children.
A researcher is studying the properties of molecules under various heat and cold conditions.	A researcher is investigating the properties of particular substances under various heat and cold conditions with the objective of finding longer-lasting components for highway pavement.	A researcher is working with state transportation officials to conduct tests of a newly developed highway pavement under various types of heat and cold conditions.
A researcher is studying the heart chambers of various fish species.	A researcher is examining various levels of a toxic substance to determine the maximum safe level for fish in a stream.	A researcher has a contract with the U.S. government to design a new stream monitoring system that will incorporate the latest research findings on toxicity levels for fish.

Question 4. Of the total R&D expenditures reported in Question 1, what were the amounts for the following types of costs?

Please report only **direct costs** in rows a–e. **Indirect costs** should be reported in row f.

Direct costs from all sources	R&D expenditures (Dollars in thousands)
a. Salaries, wages, and fringe benefits Include compensation for all R&D personnel whether full-time or part-time, temporary or permanent. Include salaries, wages, and fringe benefits paid from internal funds and from external support.	\$ <input type="text"/>
b. Software purchases All payments for software. Include both purchases of software packages and license fees for systems.	\$ <input type="text"/>
c. Equipment Payments for movable equipment. Include ancillary costs such as delivery and setup.	\$ <input type="text"/>
d. Subcontracts Payments to subcontractors or subrecipients for services on R&D projects.	\$ <input type="text"/>
e. Other direct costs Other costs that do not fit into one of the above categories, including (but not limited to) travel, computer usage fees, and supplies.	\$ <input type="text"/>
Indirect costs	
f. Indirect costs Include all indirect costs (overhead) associated with R&D projects.	\$ <input type="text"/>
g. Total¹ (should match total from Question 1, row f)	\$ <u>TOTAL</u>

¹ Column totals are automatically generated on the Web survey.

Question 5. What was the total operating budget of your FFRDC in FY 2011, excluding capital construction costs?

	(Dollars in thousands)
Total operating budget	\$ <input type="text"/>

Question 6.

A. Contact information: Please complete the contact information for the person responsible for the survey and an alternate contact.

	Primary contact	Alternate contact
Name	<input type="text"/>	<input type="text"/>
Title	<input type="text"/>	<input type="text"/>
Organization name	<input type="text"/>	<input type="text"/>
Street address (line 1)	<input type="text"/>	<input type="text"/>
Street address (line 2)	<input type="text"/>	<input type="text"/>
City, state, and ZIP code	<input type="text"/>	<input type="text"/>
Phone number	<input type="text"/>	<input type="text"/>
Fax number	<input type="text"/>	<input type="text"/>
E-mail address	<input type="text"/>	<input type="text"/>

B. Fiscal year: In what month did your organization's 2011 fiscal year end?

C. Survey completion time: Considering all offices involved, approximately how long did it take to complete this survey? hours

D. Additional comments:

Suggested Citation, Acknowledgments

National Science Foundation, National Center for Science and Engineering Statistics. 2013. *FFRDC Research and Development Expenditures: Fiscal Year 2011*. Detailed Statistical Tables NSF 13-315. Arlington, VA. Available at <http://www.nsf.gov/statistics/nsf13315/>.

ICF International, under NSF contract number DACS1068196, prepared the tables, general and technical notes, and report copy. ICF International staff members Sha'Kera Bumbray, Jennifer Greer, and Kathryn Harper worked on this report.

National Center for Science and Engineering Statistics

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Nirmala Kannankutty
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