TABLE 88

Federal obligations for development, by performer: FYs 1967–2022

(Dollars in millions)

Fiscal year	Total	Intramural		Extramural				
				United States and U.S. territories				Non-U.S. performers
		Federal agencies[a]	FFRDCs	Businesses	Higher education[b]	Nonprofit organizations	State and local governments	
1967	11,898	1,934	803	8,839	142	151	10	17
1968	11,140	1,952	879	7,953	186	143	18	9
1969	10,996	1,856	937	7,817	207	143	27	9
1970	10,438	2,175	929	6,894	199	214	16	10
1971	10,419	2,340	933	6,699	214	177	45	11
1972	10,948	2,605	972	6,809	261	173	113	15
1973	11,219	2,674	1,017	6,844	226	262	173	24
1974	11,235	2,641	1,058	6,878	256	258	123	21
1975	12,309	2,890	1,233	7,413	333	308	116	17
1976	13,160	2,890	1,324	8,237	302	273	112	23
1977	14,936	3,054	1,772	9,350	322	288	123	28
1978	16,238	3,590	1,853	9,749	447	407	140	53
1979	17,610	3,936	2,056	10,410	555	404	171	77
1980	18,233	3,966	2,149	10,892	564	427	115	120
1981	20,891	4,392	2,370	12,910	546	364	93	217
1982	23,410	4,947	2,355	15,036	560	348	58	106
1983	24,458	5,872	2,618	14,906	498	405	49	110
1984	27,246	6,808	2,772	16,473	517	575	43	59
1985	32,226	7,889	3,292	19,630	613	654	40	107
1986	34,910	8,375	3,154	21,921	675	614	37	134
1987	37,313	7,975	3,586	24,320	697	504	58	173
1988	38,119	8,776	3,788	24,077	805	383	39	251
1989	40,641	9,128	3,658	25,673	879	480	46	777
1990	41,937	10,039	3,855	26,178	1,001	588	87	188
1991	37,327	8,684	3,410	23,014	1,301	712	86	121
1992	41,102	9,060	3,542	26,294	1,211	754	75	168
1993	40,424	9,212	2,547	26,295	1,316	771	108	175
1994	39,824	8,651	2,226	26,391	1,505	835	95	122
1995	39,752	9,340	2,336	25,537	1,574	755	95	114
1996	39,393	9,027	2,062	26,105	1,271	708	59	161
1997	40,461	9,051	2,074	27,027	1,386	667	117	139
1998	41,178	9,152	1,880	27,366	1,642	746	207	185
1999	41,813	9,399	2,235	27,322	1,755	802	125	175
2000	37,440	8,864	2,331	24,608	869	513	63	192
2001	39,779	10,916	3,167	22,974	1,408	812	145	357
2002	45,702	11,500	2,611	28,782	1,335	1,059	178	237
2003	52,456	12,699	2,826	34,652	1,329	570	99	281
2004	58,717	12,488	4,759	36,976	2,248	1,264	703	279
2005	65,110	13,521	4,642	42,411	2,532	1,409	313	281
2006	68,194	15,414	3,359	46,318	1,860	614	207	422
2007	73,169	18,116	3,295	49,268	1,581	568	64	277
2008	73,212	17,716	2,433	50,555	1,703	567	50	187
2009	77,398	18,225	3,520	53,469	1,389	549	48	198
2010	76,627	17,631	3,355	53,242	1,584	558	74	181
2011	77,468	22,481	4,129	47,513	1,427	876	434	607
2012	76,538	20,073	3,065	51,116	1,220	534	101	429
2013	66,188	19,546	2,589	42,173	1,000	469	72	338
2014	67,370	20,431	2,531	42,179	1,319	487	52	372

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(Dollars in millions)

Fiscal year	Total	Intramural		Extramural				
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		Federal agencies[a]	FFRDCs	Businesses	Higher education[b]	Nonprofit organizations	State and local governments	
2015	64,928	19,919	3,177	39,345	1,453	426	67	542
2016	48,728	16,296	2,773	27,441	1,336	412	122	349
2017	49,103	15,085	2,718	28,912	1,337	564	100	386
2018	54,837	18,136	2,998	30,986	1,446	836	132	305
2019	61,306	21,015	3,871	33,707	1,619	559	86	450
2020	82,098	31,899	3,258	41,400	3,067	1,508	75	890
2021	103,907	54,901	4,263	39,435	2,740	2,225	79	265
2022 (preliminary)	100,595	50,879	4,373	40,234	2,853	1,914	88	252

FFRDC = federally funded research and development center.

[a] Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, and actual federal performance.

[b] Higher education includes both public and private institutions as well as University Affiliated Research Centers.

Note(s):

Because of rounding, detail may not add to total. FFRDC funding over the years may be affected by the creation of new FFRDCs and the phasing out of other FFRDCs. For details, see the notes in the Master Government List of Federally Funded R&D Centers at http://www.nsf.gov/statistics/ffrdclist/#ffrdc. FYs 2009 and 2010 obligations include additional funding provided by the American Recovery and Reinvestment Act of 2009. Beginning with FY 2016, the totals reported for development obligations represent a refinement to this category by more narrowly defining it to be "experimental development." Most notably, totals for development do not include the Department of Defense (DOD) Budget Activity 7 (Operational Systems Development) obligations. Those funds, previously included in DOD's development obligation totals, support the development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year. Therefore, the data are not directly comparable with totals reported in previous years. FYs 2020, 2021, and 2022 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). As of volume 71 (FYs 2021–22), FFRDCs are classified as intramural R&D performers, whereas they were extramural in previous volumes; therefore, data are not directly comparable across volumes. Past years in the trend tables have been adjusted to reflect the current classification of FFRDCs.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.