

TABLE 87

Federal obligations for applied research, by performer: FYs 1967–2022

(Dollars in millions)

Fiscal year	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
1967	2,786	1,026	230	858	455	144	49	24
1968	2,941	1,110	225	899	467	141	70	29
1969	2,700	1,113	200	702	457	136	62	29
1970	2,975	1,345	230	691	468	150	70	20
1971	3,143	1,322	228	722	551	197	79	44
1972	3,361	1,387	240	755	621	246	78	33
1973	3,349	1,480	202	711	643	218	68	27
1974	3,788	1,574	262	751	814	287	74	26
1975	4,141	1,730	307	892	818	266	98	30
1976	4,852	2,093	430	972	908	309	106	34
1977	5,255	2,044	535	1,159	1,028	350	100	40
1978	5,908	2,192	589	1,404	1,169	398	112	45
1979	6,342	2,392	652	1,485	1,253	382	120	58
1980	6,923	2,484	719	1,752	1,379	399	127	63
1981	7,171	2,732	787	1,665	1,417	392	103	75
1982	7,541	2,729	1,035	1,886	1,318	388	101	83
1983	7,993	3,020	1,163	1,821	1,356	427	105	101
1984	7,911	2,904	1,151	1,760	1,499	449	60	89
1985	8,315	3,133	1,145	1,694	1,688	489	59	107
1986	8,349	3,141	1,007	1,769	1,751	491	60	130
1987	8,998	3,392	954	1,982	1,975	550	53	93
1988	9,177	3,288	962	2,046	2,155	571	60	94
1989	10,164	3,584	1,053	2,102	2,572	681	78	95
1990	10,337	3,515	1,010	2,304	2,588	736	76	107
1991	11,798	4,063	1,390	2,457	2,803	910	80	94
1992	12,001	4,186	1,470	2,531	2,729	952	67	66
1993	13,491	4,790	1,555	3,028	3,059	876	140	44
1994	13,888	4,983	1,449	2,954	3,299	969	156	77
1995	14,557	4,991	1,499	3,484	3,410	930	143	100
1996	13,796	4,836	1,407	3,160	3,263	944	107	77
1997	14,423	4,979	1,593	3,225	3,477	1,005	76	68
1998	15,309	5,051	1,711	3,513	3,787	1,028	155	64
1999	16,084	5,431	1,669	3,497	4,097	1,157	171	63
2000	18,901	5,828	1,803	3,444	5,965	1,729	87	45
2001	22,756	6,937	2,180	4,345	6,865	2,136	237	55
2002	24,338	7,397	2,298	4,555	7,617	2,191	204	76
2003	26,320	7,758	2,432	4,763	8,525	2,492	220	130
2004	27,237	7,414	2,710	4,813	9,301	2,470	335	195
2005	26,598	7,577	2,771	4,405	9,166	2,382	141	156
2006	26,951	7,498	2,686	4,577	9,152	2,581	265	191
2007	27,228	7,244	2,875	4,338	9,747	2,623	196	205
2008	26,740	7,154	2,783	4,237	9,678	2,462	263	162
2009	30,813	7,789	2,979	4,649	11,939	3,013	249	194
2010	31,933	8,090	3,144	4,879	12,205	3,157	250	209
2011	28,751	7,794	3,062	4,311	10,482	2,735	206	161
2012	31,027	8,714	2,912	5,639	10,560	2,731	272	200
2013	29,753	8,200	3,189	5,313	9,822	2,780	247	203
2014	31,604	8,636	3,674	5,542	10,455	2,806	317	173

TABLE 87

Federal obligations for applied research, by performer: FYs 1967–2022

(Dollars in millions)

Fiscal year	Total	Intramural		Extramural				
		Federal agencies ^a	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education ^b	Nonprofit organizations	State and local governments	
2015	32,298	9,193	3,314	5,602	10,667	2,877	359	287
2016	34,812	9,934	3,939	5,924	11,313	3,091	339	272
2017	36,600	9,789	3,982	6,271	11,779	4,217	387	176
2018	38,392	11,129	4,189	5,981	12,585	3,957	343	208
2019	41,101	11,058	4,366	7,102	13,755	4,167	414	238
2020	43,758	11,884	3,969	6,882	15,345	4,865	530	282
2021	43,750	10,565	4,724	7,004	15,586	5,260	354	256
2022 (preliminary)	44,674	11,819	4,157	6,970	15,867	5,283	307	270

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. 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.