

Appendix table 4-3

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U.S. R&D expenditures, by performing and funding sectors: 1953–2006

(Millions of current dollars)

Year	Performing sector:	Total	Federal	Industry			Industry FFRDCs	U&C ^a					U&C FFRDCs	Other nonprofit institutions				Nonprofit FFRDCs ^b	
	Funding sector:	Total	Federal	Total	Federal ^c	Industry ^d	Federal ^e	Total	Federal	Nonfederal ^e	Industry	U&C	Nonprofit	Federal ^f	Total	Federal ^c	Industry	Nonprofit	Federal ^e
1953.....		5,160	1,015	3,630	1,430	2,200	NA	273	149	40	21	37	27	131	112	58	26	28	NA
1954.....		5,617	963	4,070	1,750	2,320	NA	301	165	45	24	40	29	161	123	61	31	31	NA
1955.....		6,281	973	4,517	2,057	2,460	123	342	191	50	27	42	32	187	131	64	35	32	9
1956.....		8,500	1,130	6,272	2,995	3,277	333	391	221	57	32	46	36	217	146	71	37	38	11
1957.....		9,908	1,297	7,324	3,928	3,396	407	433	242	64	37	51	40	267	167	79	37	51	14
1958.....		10,915	1,507	8,066	4,436	3,630	323	491	280	72	39	56	45	316	195	95	38	62	18
1959.....		12,490	1,681	9,200	5,217	3,983	418	586	356	81	40	61	50	349	234	125	42	67	22
1960.....		13,711	1,801	10,032	5,604	4,428	477	705	453	90	40	67	55	385	264	148	48	68	48
1961.....		14,564	1,987	10,353	5,685	4,668	555	834	557	101	40	75	62	440	304	169	49	86	92
1962.....		15,636	2,188	11,037	6,008	5,029	426	993	687	112	41	84	70	500	363	200	54	109	130
1963.....		17,519	2,558	12,216	6,856	5,360	414	1,178	839	125	41	96	78	580	408	234	55	119	165
1964.....		19,103	2,965	13,049	7,257	5,792	463	1,375	995	138	41	114	88	629	417	250	55	112	205
1965.....		20,252	3,156	13,812	7,367	6,445	373	1,595	1,167	150	42	136	101	630	472	286	62	124	215
1966.....		22,072	3,308	15,193	7,977	7,216	355	1,818	1,335	160	45	165	114	652	537	329	70	138	210
1967.....		23,346	3,444	15,966	7,946	8,020	419	2,035	1,491	168	52	200	126	696	561	342	74	145	225
1968.....		24,666	3,497	17,014	8,145	8,869	415	2,187	1,586	185	58	221	139	722	596	364	81	151	235
1969.....		25,996	3,790	17,844	7,987	9,857	464	2,280	1,624	208	61	233	155	731	642	388	93	161	245
1970.....		26,271	4,154	17,594	7,306	10,288	473	2,418	1,686	237	66	259	171	727	677	410	95	172	230
1971.....		26,952	4,409	17,829	7,175	10,654	491	2,565	1,760	262	72	290	182	735	709	427	98	184	215
1972.....		28,740	4,676	19,004	7,469	11,535	548	2,757	1,890	282	79	312	195	785	771	472	101	198	200
1973.....		30,952	4,837	20,704	7,600	13,104	545	2,953	2,009	302	90	343	211	841	882	566	105	211	190
1974.....		33,359	5,132	22,239	7,572	14,667	648	3,216	2,160	320	104	393	239	926	988	639	114	235	210
1975.....		35,671	5,561	23,460	7,878	15,582	727	3,570	2,400	348	118	432	272	1,067	1,062	675	124	262	225
1976.....		39,435	5,890	26,107	8,671	17,436	890	3,899	2,619	369	131	480	300	1,266	1,139	711	135	292	245
1977.....		43,338	6,211	28,863	9,523	19,340	962	4,346	2,893	394	155	569	337	1,467	1,213	740	147	326	275
1978.....		48,719	6,962	32,222	10,107	22,115	1,082	4,996	3,329	443	182	679	364	1,772	1,353	830	160	363	333
1979.....		55,379	7,471	37,062	11,354	25,708	1,164	5,715	3,848	482	215	785	386	2,013	1,564	985	174	405	390
1980.....		63,224	7,831	43,228	12,752	30,476	1,277	6,455	4,335	519	264	920	419	2,306	1,658	1,017	189	452	469
1981.....		72,292	8,605	50,425	14,997	35,428	1,385	7,085	4,670	581	314	1,058	463	2,484	1,784	1,075	206	504	524
1982.....		80,748	9,501	57,166	17,061	40,105	1,484	7,603	4,879	621	363	1,207	534	2,544	1,915	1,129	224	561	536
1983.....		89,950	10,830	63,683	19,095	44,588	1,585	8,251	5,210	658	432	1,357	595	2,840	2,176	1,306	244	626	585
1984.....		102,244	11,916	73,061	21,657	51,404	1,739	9,154	5,748	721	518	1,514	654	3,243	2,511	1,548	265	698	620
1985.....		114,671	13,093	82,376	25,333	57,043	1,863	10,308	6,388	834	630	1,743	713	3,616	2,761	1,694	289	778	655
1986.....		120,249	13,504	85,932	26,000	59,932	1,891	11,540	7,028	969	745	2,019	780	3,973	2,867	1,686	314	867	541
1987.....		126,360	13,588	90,160	28,757	61,403	1,995	12,807	7,768	1,065	831	2,262	882	4,287	3,013	1,704	342	967	509
1988.....		133,880	14,342	94,893	28,221	66,672	2,122	14,220	8,592	1,165	933	2,527	1,003	4,581	3,213	1,762	372	1,078	510
1989.....		141,889	15,231	99,860	26,359	73,501	2,195	15,632	9,315	1,274	1,061	2,852	1,131	4,756	3,669	2,062	405	1,202	547
1990.....		151,990	15,671	107,404	25,802	81,602	2,323	16,936	9,936	1,399	1,166	3,187	1,249	4,894	4,126	2,346	440	1,340	636
1991.....		160,872	15,249	114,675	24,095	90,580	2,277	18,203	10,664	1,483	1,242	3,457	1,358	5,120	4,652	2,679	479	1,494	696

U.S. R&D expenditures, by performing and funding sectors: 1953–2006

(Millions of current dollars)

Year	Performing sector:		Industry				U&C ^a							Other nonprofit institutions				Nonprofit FFRDCs ^b
	Total	Federal	Total	Federal ^c	Industry ^d	Federal ^e	Total	Federal	Nonfederal ^g	Industry	U&C	Nonprofit	Federal ^f	Total	Federal ^c	Industry	Nonprofit	Federal ^c
1992.....	165,347	15,853	116,757	22,369	94,388	2,353	19,385	11,525	1,525	1,320	3,568	1,448	5,259	4,993	2,806	521	1,666	748
1993.....	165,726	16,531	115,435	20,844	94,591	1,965	20,490	12,304	1,557	1,391	3,709	1,531	5,289	5,267	2,843	567	1,857	749
1994.....	169,201	16,355	117,392	20,261	97,131	2,202	21,601	12,992	1,622	1,456	3,938	1,594	5,294	5,599	2,911	617	2,071	758
1995.....	183,618	16,904	129,830	21,178	108,652	2,273	22,610	13,587	1,751	1,547	4,110	1,616	5,367	5,827	2,847	671	2,308	808
1996.....	197,338	16,585	142,371	21,356	121,015	2,297	23,709	14,078	1,860	1,671	4,435	1,666	5,395	6,209	2,906	730	2,574	772
1997.....	212,142	16,819	155,409	21,798	133,611	2,130	24,875	14,523	1,921	1,807	4,837	1,786	5,463	6,626	3,014	809	2,804	821
1998.....	226,455	17,362	167,102	22,086	145,016	2,078	26,169	15,166	1,971	1,949	5,162	1,921	5,559	7,341	3,281	880	3,180	843
1999.....	245,036	17,851	182,090	20,496	161,594	2,039	28,163	16,253	2,098	2,082	5,618	2,111	5,652	8,249	3,761	984	3,504	993
2000.....	267,557	17,917	199,961	17,117	182,844	2,001	30,688	17,714	2,246	2,174	6,230	2,325	5,742	9,782	4,447	1,118	4,217	1,465
2001.....	277,736	20,426	202,017	16,899	185,118	2,020	33,723	19,769	2,396	2,189	6,824	2,545	6,225	11,133	5,289	1,132	4,712	2,192
2002.....	276,591	21,499	193,868	16,401	177,467	2,263	37,191	22,376	2,556	2,160	7,341	2,758	7,102	12,348	5,731	1,084	5,534	2,319
2003.....	289,025	22,752	200,724	17,798	182,926	2,458	40,457	25,106	2,740	2,129	7,648	2,833	7,301	12,839	5,686	1,118	6,035	2,494
2004.....	300,060	23,044	208,301	20,266	188,035	2,485	43,090	27,140	2,882	2,190	7,932	2,946	7,658	12,838	5,671	1,151	6,016	2,644
2005.....	323,041	24,744	226,159	21,909	204,250	2,565	45,148	28,177	2,945	2,332	8,573	3,122	7,786	13,824	5,791	1,253	6,779	2,815
2006.....	340,429	24,408	242,129	22,560	219,569	2,426	46,642	28,548	3,057	2,452	9,297	3,288	7,720	14,272	5,721	1,350	7,200	2,834

NA = not available

FFRDC = federally funded research and development center; U&C = universities and colleges

^aAdjustments made to university R&D for 1998 on to eliminate double counting of funds passed through from one academic institution to another. Data for 1998 on not directly comparable with data for 1997 and earlier. For FY 1998, \$479 million in passthrough funds reported. For FY 2006, \$1,630 million in passthrough funds estimated.

^bBeginning in 2001, data for nonprofit FFRDCs reported by FFRDCs. In prior years, data collected from federal agencies supporting them.

^cExpenditures of industry FFRDCs for 1953–54 not separated from total federal support to industrial sector; therefore, value for federal support to industry includes support to FFRDCs for those years. Similarly for expenditures of nonprofit FFRDCs, included in federal support for nonprofit institutions in 1953–54.

^dIndustry sources of industry R&D expenditures include all nonfederal sources of industry R&D expenditures.

^eBecause of limitations in survey information, data on nonfederal government funding to other performers not available and consequently included in other sectors' support for their own R&D, e.g., nonfederal government support to nonprofits is included in nonprofit support for their own R&D.

^fIncludes all R&D expenditures of FFRDCs administered by academic institutions.

NOTES: All data for calendar years. For some performers, these levels are approximations based on fiscal year data. For federal government expenditures starting in 1977, calendar-year approximation is 75% of amount reported in same fiscal year plus 25% of amount reported in subsequent fiscal year. Academic expenditures in all years and federal government expenditures before 1977 each 50% because those fiscal years (for most academic institutions and federal government before 1977) began on 1 July instead of 1 October. Technical notes explaining methodological issues of measurement available from National Science Foundation (NSF), Division of Science Resources Statistics (SRS) on request. Data based on annual reports by performers except for nonprofit sector. Preliminary data for 2005 and 2006. For trend comparisons, use only historical data reported here. Table incorporates latest revisions to prior-year data. Do not use data published earlier.

SOURCES: NSF/SRS, Research and Development in Industry 2005 (forthcoming); Academic Research and Development Expenditures: Fiscal Year 2005 (2007); Federal Funds for Research and Development: Fiscal Years 2004, 2005, and 2006 (2007); and Survey of Research and Development Funding and Performance by Nonprofit Organizations: FY 1996–97 (2001).