

U.S. development expenditures, by performing sector and source of funds: 1953–2004

(Millions of current dollars)

Year	Performing sector:		Industry				Industry FFRDCs		U&C ^a					U&C FFRDCs		Other nonprofit institutions				Nonprofit FFRDCs
	Total	Federal	Total	Federal ^b	Industry ^c	Federal ^b	Total	Federal	Nonfederal ^d	Industry	U&C	Nonprofit	Federal ^e	Total	Federal ^b	Industry	Nonprofit	Federal ^b		
1953.....	3,412	567	2,753	1,123	1,630	NA	16	9	3	1	3	1	48	29	17	6	6	NA		
1954.....	3,734	537	3,090	1,405	1,685	NA	17	9	3	1	3	1	59	32	18	7	7	NA		
1955.....	4,189	543	3,523	1,785	1,738	NA	21	12	4	2	3	1	69	34	19	8	7	NA		
1956.....	5,855	631	5,084	2,817	2,267	NA	25	14	4	2	4	2	81	35	20	8	7	NA		
1957.....	6,681	728	5,790	3,616	2,174	NA	26	12	5	3	4	2	101	37	21	8	8	NA		
1958.....	7,214	842	6,183	3,942	2,241	NA	28	13	6	3	4	2	120	42	25	8	9	NA		
1959.....	8,463	940	7,307	4,750	2,557	NA	31	16	6	3	5	2	134	51	32	9	10	NA		
1960.....	9,360	1,003	8,104	5,169	2,935	NA	35	19	6	3	5	2	151	69	49	10	10	NA		
1961.....	9,930	1,090	8,536	5,347	3,189	NA	38	22	7	2	5	2	170	97	73	10	14	NA		
1962.....	10,115	1,227	8,526	5,280	3,246	NA	40	23	8	2	6	2	190	132	103	11	18	NA		
1963.....	11,540	1,465	9,651	6,116	3,535	NA	40	22	8	2	6	2	219	165	134	11	20	NA		
1964.....	12,506	1,680	10,004	6,156	3,848	359	49	30	8	2	7	3	227	188	159	11	18	NA		
1965.....	13,215	1,789	10,637	6,218	4,419	298	71	48	9	2	8	4	207	215	183	12	20	NA		
1966.....	14,490	1,886	11,810	6,849	4,961	271	87	61	9	2	10	5	200	236	199	14	23	NA		
1967.....	15,332	1,943	12,539	6,795	5,744	302	93	66	9	3	10	7	208	247	208	15	24	NA		
1968.....	16,154	1,904	13,370	7,044	6,326	293	102	72	8	4	9	9	226	259	217	16	26	NA		
1969.....	17,051	2,016	14,071	6,944	7,127	332	110	80	7	5	8	10	246	277	231	18	28	NA		
1970.....	16,925	2,258	13,698	6,232	7,466	340	112	84	6	5	7	10	249	268	220	18	30	NA		
1971.....	17,399	2,473	13,924	6,167	7,757	391	98	69	8	4	9	9	267	246	194	19	33	NA		
1972.....	18,743	2,639	15,043	6,533	8,510	402	101	63	12	4	14	9	291	267	213	19	35	NA		
1973.....	20,197	2,657	16,394	6,621	9,773	399	126	71	18	5	20	13	296	326	268	20	38	NA		
1974.....	21,504	2,765	17,421	6,553	10,868	479	141	75	20	7	25	15	321	377	314	22	42	NA		
1975.....	22,706	2,890	18,352	6,783	11,569	535	156	83	22	8	27	16	373	400	330	23	47	NA		
1976.....	25,085	2,972	20,412	7,522	12,890	654	182	100	24	12	31	16	447	418	341	25	52	NA		
1977.....	27,667	3,188	22,603	8,275	14,328	675	254	153	28	15	40	19	503	444	359	27	58	NA		
1978.....	31,056	3,676	25,216	8,756	16,460	753	373	254	32	15	49	24	542	496	403	30	64	NA		
1979.....	35,445	3,944	29,033	9,888	19,145	810	469	336	34	16	56	28	603	586	483	32	71	NA		
1980.....	40,678	4,072	33,848	10,957	22,891	882	518	362	38	19	68	31	719	639	525	35	79	NA		
1981.....	46,047	4,530	38,547	12,791	25,756	950	568	386	44	24	80	35	778	674	549	37	88	NA		
1982.....	51,679	5,178	43,434	14,215	29,219	989	597	397	46	27	88	39	745	737	599	40	98	NA		
1983.....	57,540	6,106	48,064	15,522	32,542	1,054	617	399	47	31	97	43	832	867	715	44	109	NA		
1984.....	66,261	7,078	55,371	17,640	37,731	1,056	677	435	51	37	108	47	986	1,093	925	47	120	NA		
1985.....	74,417	8,011	62,020	20,258	41,762	1,102	756	486	57	43	120	49	1,244	1,285	1,100	51	134	NA		
1986.....	75,754	8,275	62,871	21,517	41,354	1,145	818	513	65	50	136	53	1,504	1,141	938	55	149	NA		
1987.....	79,804	8,176	66,789	24,122	42,667	1,230	945	599	73	57	155	61	1,670	996	771	60	165	NA		
1988.....	84,566	8,864	70,353	23,719	46,634	1,414	1,098	698	83	66	180	71	1,762	655	407	65	183	420		
1989.....	87,723	9,355	72,725	21,049	51,676	1,423	1,227	773	92	76	205	81	1,782	780	507	70	203	430		
1990.....	94,067	9,700	78,376	18,966	59,410	1,438	1,407	909	99	83	226	89	1,735	920	619	75	226	490		
1991.....	95,104	8,778	80,286	17,256	63,030	1,383	1,533	1,011	103	86	239	94	1,537	1,054	722	82	251	533		
1992.....	99,810	9,098	84,569	17,181	67,388	1,372	1,595	1,054	105	91	246	100	1,452	1,125	758	88	279	599		
1993.....	99,704	9,071	84,757	16,083	68,674	1,038	1,698	1,126	109	97	259	107	1,374	1,191	787	95	309	574		

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Year	Performing sector:	Total	Federal	Industry			Industry FFRDCs	U&C ^a						U&C FFRDCs	Other nonprofit institutions				Nonprofit FFRDCs
	Funding sector:	Total	Federal	Total	Federal ^b	Industry ^c	Federal ^b	Total	Federal	Nonfederal ^d	Industry	U&C	Nonprofit	Federal ^e	Total	Federal ^b	Industry	Nonprofit	Federal ^b
1994.....		102,936	8,823	87,890	16,209	71,681	1,196	1,815	1,212	114	102	276	112	1,378	1,261	815	103	343	573
1995.....		113,077	9,262	97,342	17,824	79,518	1,208	1,810	1,178	123	108	288	113	1,616	1,236	744	111	381	603
1996.....		121,375	9,033	105,863	17,066	88,797	1,358	1,790	1,127	128	115	305	115	1,520	1,241	698	120	423	571
1997.....		128,677	9,077	113,184	18,121	95,063	1,292	1,708	1,056	121	114	305	112	1,454	1,378	687	155	536	585
1998.....		146,023	9,214	130,348	18,452	111,896	1,280	1,630	987	115	114	302	112	1,527	1,516	760	170	586	507
1999.....		154,055	8,974	138,873	16,637	122,236	1,142	1,391	713	120	119	320	120	1,636	1,572	726	188	658	467
2000.....		167,792	8,047	153,784	13,549	140,235	1,146	1,176	452	125	121	347	130	1,539	1,468	513	214	741	632
2001.....		165,168	9,114	149,952	12,542	137,410	534	1,271	502	132	121	376	140	1,637	1,716	675	217	825	945
2002.....		173,977	9,501	157,788	13,061	144,727	597	1,351	527	142	120	409	153	1,703	2,005	890	207	908	1,031
2003.....		174,677	10,686	157,343	13,889	143,454	607	1,440	553	154	122	445	166	1,754	1,714	523	214	976	1,133
2004.....		187,349	11,447	168,939	15,792	153,147	610	1,474	543	165	122	468	176	1,778	1,812	534	229	1,048	1,288

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. Character-of-work estimation procedure for university and college R&D also revised for 1998 on; hence, data not directly comparable with data for 1997 and earlier.

^bExpenditures of industry FFRDCs for 1953–63 not separated from total federal support to industrial sector. Thus, value for federal support to industry includes support to FFRDCs for those years. Likewise for expenditures of nonprofit FFRDCs, included in federal support for nonprofit institutions in 1953–87.

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

^dBecause 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.

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

NOTES: All data refer to calendar years. For some performers, these levels are approximations based on FY data. For federal government expenditures starting in 1977, calendar-year approximation is 75% of amount reported in same FY plus 25% of amount reported in subsequent FY. Academic expenditures in all years and federal government expenditures before 1977 are each 50% because those FYs (for most academic institutions and federal government before 1977) began on July 1 instead of October 1. Technical notes explaining methodological issues of measurement will be provided in National Science Foundation (NSF), *National Patterns of R&D Resources, Methodology Report: 2003* (forthcoming). Data based on annual reports by performers except for nonprofit sector. Preliminary data for 2003 and 2004. For trend comparisons, use only historical data reported here. Table incorporates latest revisions to prior-year data. Do not use data published earlier.

SOURCE: NSF, Division of Science Resources Statistics, *National Patterns of R&D Resources* (annual series).