

U.S. inflation-adjusted applied research expenditures, by source of funds and performing sector: 1953–2004

(Millions of constant 2000 dollars)

Year	Funding sector:	Total	Federal							Industry				U&C	Nonprofit		Nonfederal ^a		
	Performing sector:		Total	Federal	Industry ^b	Industry FFRDCs ^b	U&C ^c	U&C FFRDCs ^d	Non-profit ^e	Nonprofit FFRDCs ^b	Total	Industry ^e	U&C ^c	Nonprofit	U&C ^c	Total	Nonprofit	U&C ^c	U&C ^c
1953.....		7,065	4,141	1,902	1,579	NA	323	260	77	NA	2,497	2,401	36	60	153	110	55	55	165
1954.....		7,482	4,262	1,789	1,748	NA	323	315	87	NA	2,783	2,671	41	71	152	114	60	54	171
1955.....		8,074	4,534	1,776	1,963	NA	336	363	96	NA	3,107	2,987	45	75	145	115	59	56	172
1956.....		9,938	5,282	1,993	2,444	NA	335	405	106	NA	4,218	4,094	52	72	139	129	72	57	171
1957.....		12,044	6,508	2,223	3,384	NA	314	469	117	NA	5,078	4,951	57	70	135	155	100	55	169
1958.....		13,455	7,298	2,517	3,776	NA	320	539	146	NA	5,674	5,547	59	68	133	178	122	56	172
1959.....		14,165	7,855	2,778	3,918	NA	373	581	205	NA	5,809	5,677	60	72	135	188	130	58	178
1960.....		14,567	8,229	2,921	3,959	NA	442	611	297	NA	5,827	5,684	62	81	137	190	133	57	184
1961.....		14,678	8,511	3,139	3,816	NA	486	681	388	NA	5,616	5,475	61	80	139	223	164	59	188
1962.....		17,144	9,728	3,285	4,688	NA	549	753	452	NA	6,818	6,667	63	88	141	269	209	60	188
1963.....		17,730	10,298	3,712	4,620	NA	585	853	528	NA	6,804	6,653	64	87	148	287	225	62	193
1964.....		18,983	11,123	4,277	4,419	280	642	917	587	NA	7,196	7,049	61	86	169	291	212	79	204
1965.....		19,408	11,327	4,409	4,402	204	779	912	621	NA	7,340	7,189	58	93	187	348	231	118	206
1966.....		20,074	11,324	4,366	4,254	229	897	919	658	NA	7,948	7,784	60	104	209	390	246	145	203
1967.....		20,290	11,564	4,472	4,114	347	994	942	695	NA	7,908	7,738	65	105	225	402	251	151	191
1968.....		20,620	11,281	4,462	3,837	349	1,001	885	747	NA	8,530	8,353	64	112	221	403	249	155	185
1969.....		20,859	11,181	4,701	3,518	363	981	815	803	NA	8,872	8,689	61	122	206	415	252	163	184
1970.....		20,893	11,261	4,845	3,458	352	1,015	774	817	NA	8,820	8,637	64	120	203	423	254	169	186
1971.....		20,176	10,692	4,687	3,137	232	1,058	745	832	NA	8,625	8,443	64	118	232	419	256	163	209
1972.....		20,377	10,750	4,754	2,801	355	1,295	743	804	NA	8,677	8,493	68	116	271	433	262	171	246
1973.....		20,897	10,768	4,796	2,773	345	1,411	636	807	NA	9,087	8,892	82	113	314	454	261	193	275
1974.....		21,149	10,466	4,758	2,606	346	1,372	549	835	NA	9,599	9,397	91	111	339	468	262	206	277
1975.....		21,292	10,856	5,031	2,608	366	1,446	576	829	NA	9,263	9,052	101	109	370	505	263	242	298
1976.....		22,331	11,105	5,146	2,570	415	1,481	653	840	NA	9,954	9,732	111	111	412	544	272	271	317
1977.....		22,601	10,955	4,867	2,603	496	1,463	695	830	NA	10,316	10,084	119	112	454	563	281	282	315
1978.....		23,394	11,103	4,899	2,612	514	1,477	708	893	NA	10,888	10,643	132	113	507	566	287	279	330
1979.....		24,415	11,307	4,874	2,634	505	1,600	726	969	NA	11,699	11,444	144	112	531	551	291	260	326
1980.....		25,434	11,598	4,711	3,007	509	1,688	779	904	NA	12,394	12,120	163	110	570	552	292	260	321
1981.....		27,726	11,785	4,620	3,454	504	1,611	714	882	NA	14,430	14,139	182	108	613	561	292	269	337
1982.....		29,142	12,357	4,466	4,134	585	1,605	690	877	NA	15,229	14,927	193	109	641	585	301	283	331
1983.....		31,243	13,515	4,587	4,949	635	1,721	726	897	NA	16,104	15,774	217	113	680	615	317	298	330
1984.....		33,264	14,121	4,376	5,435	809	1,812	811	878	NA	17,424	17,059	248	117	726	648	334	313	346
1985.....		36,449	15,691	4,497	6,766	904	1,860	831	834	NA	18,921	18,516	284	122	785	676	355	321	375
1986.....		38,258	14,636	4,497	5,683	883	1,955	777	842	NA	21,617	21,168	321	128	871	716	379	337	418
1987.....		38,137	14,745	4,598	5,515	851	2,244	726	810	NA	21,190	20,702	355	133	966	780	403	377	455
1988.....		39,009	14,199	4,442	5,081	490	2,586	722	791	87	22,377	21,839	399	138	1,081	855	426	429	498
1989.....		41,087	14,960	4,540	5,504	476	2,699	767	884	89	23,489	22,904	442	143	1,188	919	448	471	531
1990.....		42,769	16,784	4,476	7,313	473	2,622	844	955	100	23,201	22,591	462	147	1,264	966	470	495	555
1991.....		45,746	16,909	4,848	6,617	513	2,641	1,097	1,091	102	25,989	25,372	464	153	1,292	1,003	496	507	554
1992.....		43,912	15,846	5,020	5,181	587	2,793	1,089	1,081	94	25,162	24,523	479	160	1,296	1,054	528	526	554
1993.....		42,181	15,922	5,474	4,860	492	2,873	1,089	1,018	116	23,248	22,580	501	167	1,336	1,113	562	551	561

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	Performing sector:	Total	Total	Federal	Industry ^b	Industry FFRDCs ^b	U&C ^c	U&C FFRDCs ^d	Non-profit ^b	Nonprofit FFRDCs ^b	Total	Industry ^e	U&C ^c	Nonprofit	U&C ^c	Total	Nonprofit	U&C ^c	U&C ^c
1994.....		40,565	15,286	5,523	4,006	557	2,926	1,087	1,063	123	22,153	21,463	514	176	1,391	1,162	599	563	573
1995.....		44,439	14,700	5,377	3,435	581	3,013	1,140	1,014	140	26,511	25,791	536	184	1,423	1,199	639	560	606
1996.....		45,992	14,868	5,191	3,878	246	3,047	1,353	1,022	130	27,784	27,032	558	193	1,481	1,239	682	557	622
1997.....		48,791	13,504	5,237	2,775	223	2,673	1,402	1,059	135	31,972	31,214	543	215	1,455	1,281	745	537	579
1998.....		48,057	13,323	5,334	2,728	238	2,375	1,422	1,099	128	31,429	30,658	538	233	1,425	1,335	805	530	544
1999.....		53,218	14,356	5,650	2,878	280	2,809	1,278	1,328	132	35,365	34,558	552	255	1,490	1,451	891	560	556
2000.....		56,844	15,787	6,105	2,676	275	3,354	1,329	1,831	217	37,330	36,494	553	283	1,583	1,573	981	591	571
2001.....		63,091	18,861	6,887	3,519	913	3,669	1,450	2,100	324	40,279	39,462	537	280	1,673	1,690	1,067	623	588
2002.....		48,791	18,709	7,193	2,356	1,006	4,060	1,619	2,178	297	25,845	25,056	525	264	1,790	1,824	1,156	669	623
2003.....		58,570	22,240	7,490	4,889	1,132	4,385	1,624	2,375	346	31,824	31,033	523	268	1,911	1,932	1,220	712	664
2004.....		61,335	23,397	7,770	5,446	1,172	4,606	1,669	2,398	337	33,249	32,455	513	281	1,970	2,024	1,283	741	694

NA = not available

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

^aBecause 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.

^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.

^cAdjustments 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.

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

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

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).