

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

(Millions of current dollars)

Year	Performing sector:	Total	Federal	Industry			Industry FFRDCs	U&C <sup>a</sup>						U&C FFRDCs	Other nonprofit institutions				Nonprofit FFRDCs
	Funding sector:	Total	Federal	Total	Federal <sup>b</sup>	Industry <sup>c</sup>	Federal <sup>b</sup>	Total	Federal	Nonfederal <sup>d</sup>	Industry	U&C	Nonprofit	Federal <sup>e</sup>	Total	Federal <sup>b</sup>	Industry	Nonprofit	Federal <sup>b</sup>
1953.....		1,289	347	726	288	438	NA	134	59	30	7	28	10	48	35	14	11	10	NA
1954.....		1,378	330	814	322	492	NA	137	60	32	8	28	10	58	40	16	13	11	NA
1955.....		1,514	333	928	368	560	NA	142	63	32	9	27	11	68	43	18	14	11	NA
1956.....		1,928	387	1,268	474	794	NA	146	65	33	10	27	11	79	49	21	14	14	NA
1957.....		2,414	446	1,670	678	992	NA	147	63	34	12	27	11	94	58	24	14	20	NA
1958.....		2,758	516	1,911	774	1,137	NA	152	66	35	12	27	12	111	69	30	14	25	NA
1959.....		2,940	577	1,991	813	1,178	NA	167	78	37	13	28	12	121	85	43	15	27	NA
1960.....		3,065	615	2,029	833	1,196	NA	186	93	39	13	29	12	129	108	63	17	28	NA
1961.....		3,123	668	1,977	812	1,165	NA	199	104	40	13	30	13	145	135	83	17	35	NA
1962.....		3,698	709	2,449	1,011	1,438	NA	216	119	41	14	30	13	163	162	98	19	45	NA
1963.....		3,865	809	2,457	1,007	1,450	NA	230	128	42	14	32	14	186	183	115	19	49	NA
1964.....		4,201	947	2,538	978	1,560	62	256	142	45	14	37	18	203	196	130	19	47	NA
1965.....		4,374	994	2,612	992	1,620	46	304	176	46	13	42	27	206	213	140	21	52	NA
1966.....		4,653	1,012	2,790	986	1,804	53	351	208	47	14	48	34	213	234	153	24	57	NA
1967.....		4,848	1,069	2,832	983	1,849	83	389	238	46	16	54	36	225	251	166	25	60	NA
1968.....		5,137	1,112	3,037	956	2,081	87	405	250	46	16	55	39	221	276	186	28	62	NA
1969.....		5,454	1,229	3,192	920	2,272	95	417	257	48	16	54	43	213	308	210	32	66	NA
1970.....		5,752	1,334	3,330	952	2,378	97	451	280	51	18	56	47	213	328	225	33	70	NA
1971.....		5,833	1,355	3,348	907	2,441	67	499	306	61	19	67	47	216	349	241	34	74	NA
1972.....		6,147	1,434	3,407	845	2,562	107	619	391	74	21	82	52	224	357	243	35	79	NA
1973.....		6,655	1,527	3,715	883	2,832	110	725	450	88	26	100	62	203	376	257	36	83	NA
1974.....		7,344	1,652	4,168	905	3,263	120	794	477	96	32	118	72	191	420	290	39	91	NA
1975.....		8,091	1,912	4,431	991	3,440	139	934	550	113	39	141	92	219	456	315	42	100	NA
1976.....		8,976	2,068	4,945	1,033	3,912	167	1,042	596	127	45	166	109	263	492	338	45	109	NA
1977.....		9,662	2,081	5,424	1,113	4,311	212	1,126	626	134	51	194	121	297	523	355	48	120	NA
1978.....		10,704	2,242	6,065	1,195	4,870	235	1,247	676	151	61	232	128	324	592	409	52	132	NA
1979.....		12,097	2,415	6,975	1,305	5,670	250	1,418	793	161	71	263	129	360	680	480	55	144	NA
1980.....		13,745	2,546	8,175	1,625	6,550	275	1,622	912	174	88	308	140	421	706	489	60	158	NA
1981.....		16,391	2,731	10,401	2,042	8,359	298	1,781	953	199	108	363	159	422	758	521	64	173	NA
1982.....		18,280	2,802	11,956	2,593	9,363	367	1,915	1,007	207	121	402	178	433	808	550	69	189	NA
1983.....		20,373	2,991	13,513	3,227	10,286	414	2,116	1,122	215	141	443	194	473	866	585	74	207	NA
1984.....		22,505	2,961	15,218	3,677	11,541	547	2,332	1,226	234	168	491	212	548	899	594	79	226	NA
1985.....		25,410	3,135	17,625	4,717	12,908	630	2,527	1,296	262	198	547	224	579	913	581	85	247	NA
1986.....		27,259	3,204	19,131	4,049	15,082	629	2,780	1,393	298	229	620	240	554	961	600	91	270	NA
1987.....		27,915	3,366	19,190	4,037	15,153	623	3,219	1,643	333	260	707	276	532	986	593	98	295	NA
1988.....		29,528	3,362	20,377	3,846	16,531	371	3,779	1,957	377	302	818	325	547	1,026	599	105	322	66
1989.....		32,277	3,566	22,317	4,324	17,993	374	4,188	2,120	417	347	933	370	603	1,159	695	112	352	70
1990.....		34,896	3,652	24,399	5,967	18,432	386	4,405	2,139	453	377	1,031	404	689	1,284	780	120	384	81
1991.....		38,629	4,093	27,013	5,588	21,425	433	4,608	2,230	468	392	1,091	428	927	1,468	921	129	419	86
1992.....		37,933	4,337	25,660	4,476	21,184	507	4,880	2,413	479	414	1,120	454	940	1,528	933	138	456	81

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	Funding sector:	Total	Federal	Total	Federal <sup>b</sup>	Industry <sup>c</sup>	Federal <sup>b</sup>	Total	Federal	Nonfederal <sup>d</sup>	Industry	U&C	Nonprofit	Federal <sup>e</sup>	Total	Federal <sup>b</sup>	Industry	Nonprofit	Federal <sup>b</sup>
1993.....		37,279	4,838	24,251	4,295	19,956	435	5,146	2,539	496	443	1,181	487	962	1,544	900	148	497	103
1994.....		36,614	4,985	22,988	3,616	19,372	503	5,386	2,641	517	464	1,256	508	982	1,659	960	158	541	111
1995.....		40,931	4,952	26,919	3,164	23,755	535	5,654	2,775	558	494	1,311	516	1,050	1,692	934	170	589	129
1996.....		43,165	4,872	29,010	3,640	25,370	231	5,879	2,860	583	524	1,390	522	1,270	1,781	960	182	640	122
1997.....		46,553	4,997	32,430	2,648	29,782	213	5,522	2,551	552	518	1,388	512	1,337	1,926	1,011	205	711	128
1998.....		46,361	5,146	32,208	2,632	29,576	230	5,221	2,291	525	519	1,374	512	1,372	2,062	1,060	225	777	123
1999.....		52,083	5,530	36,638	2,817	33,821	274	5,839	2,749	544	540	1,458	548	1,251	2,421	1,300	249	872	130
2000.....		56,844	6,105	39,170	2,676	36,494	275	6,652	3,354	571	553	1,583	591	1,329	3,096	1,831	283	981	217
2001.....		64,605	7,052	44,012	3,603	40,409	935	7,260	3,757	602	550	1,713	638	1,485	3,530	2,150	287	1,093	332
2002.....		50,787	7,487	28,533	2,452	26,081	1,048	7,980	4,227	649	547	1,863	696	1,685	3,744	2,267	275	1,203	309
2003.....		62,084	7,939	38,076	5,182	32,894	1,200	8,686	4,648	704	555	2,025	754	1,721	4,095	2,518	284	1,293	367
2004.....		66,364	8,407	41,009	5,892	35,117	1,268	9,223	4,983	751	555	2,132	802	1,806	4,287	2,595	304	1,388	365

NA = not available

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

<sup>a</sup>Adjustments 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.

<sup>b</sup>Expenditures 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.

<sup>c</sup>Industry sources of industry R&D expenditures include all nonfederal sources of industry R&D expenditures.

<sup>d</sup>Because 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.

<sup>e</sup>Includes 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).