

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

(Millions of current dollars)

Year	Funding sector:	Total	Federal							Industry				U&C	Nonprofit		Nonfederal ^a		
	Performing sector:		Total	Federal	Industry ^b	Industry FFRDCs ^b	U&C ^c	Non-profit ^b	Nonprofit FFRDCs ^b	Total	Industry ^e	U&C ^c	Nonprofit	U&C ^c	Total	Nonprofit	U&C ^c	U&C ^c	
1953.....		1,289	756	347	288	NA	59	48	14	NA	456	438	7	11	28	20	10	10	30
1954.....		1,378	785	330	322	NA	60	58	16	NA	513	492	8	13	28	21	11	10	32
1955.....		1,514	850	333	368	NA	63	68	18	NA	583	560	9	14	27	22	11	11	32
1956.....		1,928	1,025	387	474	NA	65	79	21	NA	818	794	10	14	27	25	14	11	33
1957.....		2,414	1,304	446	678	NA	63	94	24	NA	1,018	992	12	14	27	31	20	11	34
1958.....		2,758	1,496	516	774	NA	66	111	30	NA	1,163	1,137	12	14	27	37	25	12	35
1959.....		2,940	1,630	577	813	NA	78	121	43	NA	1,206	1,178	13	15	28	39	27	12	37
1960.....		3,065	1,732	615	833	NA	93	129	63	NA	1,226	1,196	13	17	29	40	28	12	39
1961.....		3,123	1,811	668	812	NA	104	145	83	NA	1,195	1,165	13	17	30	48	35	13	40
1962.....		3,698	2,098	709	1,011	NA	119	163	98	NA	1,471	1,438	14	19	30	58	45	13	41
1963.....		3,865	2,245	809	1,007	NA	128	186	115	NA	1,483	1,450	14	19	32	63	49	14	42
1964.....		4,201	2,462	947	978	62	142	203	130	NA	1,593	1,560	14	19	37	65	47	18	45
1965.....		4,374	2,553	994	992	46	176	206	140	NA	1,654	1,620	13	21	42	79	52	27	46
1966.....		4,653	2,625	1,012	986	53	208	213	153	NA	1,842	1,804	14	24	48	91	57	34	47
1967.....		4,848	2,763	1,069	983	83	238	225	166	NA	1,890	1,849	16	25	54	96	60	36	46
1968.....		5,137	2,811	1,112	956	87	250	221	186	NA	2,125	2,081	16	28	55	101	62	39	46
1969.....		5,454	2,924	1,229	920	95	257	213	210	NA	2,320	2,272	16	32	54	109	66	43	48
1970.....		5,752	3,100	1,334	952	97	280	213	225	NA	2,429	2,378	18	33	56	117	70	47	51
1971.....		5,833	3,091	1,355	907	67	306	216	241	NA	2,494	2,441	19	34	67	121	74	47	61
1972.....		6,147	3,243	1,434	845	107	391	224	243	NA	2,618	2,562	21	35	82	131	79	52	74
1973.....		6,655	3,429	1,527	883	110	450	203	257	NA	2,894	2,832	26	36	100	145	83	62	88
1974.....		7,344	3,634	1,652	905	120	477	191	290	NA	3,333	3,263	32	39	118	163	91	72	96
1975.....		8,091	4,125	1,912	991	139	550	219	315	NA	3,520	3,440	39	42	141	192	100	92	113
1976.....		8,976	4,464	2,068	1,033	167	596	263	338	NA	4,001	3,912	45	45	166	218	109	109	127
1977.....		9,662	4,683	2,081	1,113	212	626	297	355	NA	4,410	4,311	51	48	194	241	120	121	134
1978.....		10,704	5,080	2,242	1,195	235	676	324	409	NA	4,982	4,870	61	52	232	259	132	128	151
1979.....		12,097	5,602	2,415	1,305	250	793	360	480	NA	5,797	5,670	71	55	263	273	144	129	161
1980.....		13,745	6,268	2,546	1,625	275	912	421	489	NA	6,698	6,550	88	60	308	298	158	140	174
1981.....		16,391	6,967	2,731	2,042	298	953	422	521	NA	8,531	8,359	108	64	363	332	173	159	199
1982.....		18,280	7,751	2,802	2,593	367	1,007	433	550	NA	9,553	9,363	121	69	402	367	189	178	207
1983.....		20,373	8,813	2,991	3,227	414	1,122	473	585	NA	10,501	10,286	141	74	443	401	207	194	215
1984.....		22,505	9,553	2,961	3,677	547	1,226	548	594	NA	11,788	11,541	168	79	491	438	226	212	234
1985.....		25,410	10,939	3,135	4,717	630	1,296	579	581	NA	13,191	12,908	198	85	547	471	247	224	262
1986.....		27,259	10,428	3,204	4,049	629	1,393	554	600	NA	15,402	15,082	229	91	620	510	270	240	298
1987.....		27,915	10,793	3,366	4,037	623	1,643	532	593	NA	15,511	15,153	260	98	707	571	295	276	333
1988.....		29,528	10,748	3,362	3,846	371	1,957	547	599	66	16,938	16,531	302	105	818	647	322	325	377
1989.....		32,277	11,752	3,566	4,324	374	2,120	603	695	70	18,452	17,993	347	112	933	722	352	370	417
1990.....		34,896	13,694	3,652	5,967	386	2,139	689	780	81	18,930	18,432	377	120	1,031	788	384	404	453
1991.....		38,629	14,278	4,093	5,588	433	2,230	927	921	86	21,946	21,425	392	129	1,091	847	419	428	468
1992.....		37,933	13,688	4,337	4,476	507	2,413	940	933	81	21,736	21,184	414	138	1,120	911	456	454	479
1993.....		37,279	14,072	4,838	4,295	435	2,539	962	900	103	20,547	19,956	443	148	1,181	984	497	487	496

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1994.....		36,614	13,797	4,985	3,616	503	2,641	982	960	111	19,995	19,372	464	158	1,256	1,049	541	508	517
1995.....		40,931	13,540	4,952	3,164	535	2,775	1,050	934	129	24,418	23,755	494	170	1,311	1,104	589	516	558
1996.....		43,165	13,954	4,872	3,640	231	2,860	1,270	960	122	26,076	25,370	524	182	1,390	1,162	640	522	583
1997.....		46,553	12,885	4,997	2,648	213	2,551	1,337	1,011	128	30,505	29,782	518	205	1,388	1,223	711	512	552
1998.....		46,361	12,853	5,146	2,632	230	2,291	1,372	1,060	123	30,320	29,576	519	225	1,374	1,288	777	512	525
1999.....		52,083	14,050	5,530	2,817	274	2,749	1,251	1,300	130	34,611	33,821	540	249	1,458	1,420	872	548	544
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.....		64,605	19,314	7,052	3,603	935	3,757	1,485	2,150	332	41,246	40,409	550	287	1,713	1,731	1,093	638	602
2002.....		50,787	19,474	7,487	2,452	1,048	4,227	1,685	2,267	309	26,902	26,081	547	275	1,863	1,899	1,203	696	649
2003.....		62,084	23,575	7,939	5,182	1,200	4,648	1,721	2,518	367	33,733	32,894	555	284	2,025	2,048	1,293	754	704
2004.....		66,364	25,315	8,407	5,892	1,268	4,983	1,806	2,595	365	35,975	35,117	555	304	2,132	2,190	1,388	802	751

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).