

Appendix table 4-7

U.S. basic 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 ^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
1953.....		460	102	151	19	132	NA	123	82	7	13	6	16	36	48	27	9	12	NA
1954.....		509	96	166	23	143	NA	148	97	10	15	8	18	44	55	31	11	13	NA
1955.....		579	98	189	27	162	NA	180	117	14	17	12	21	50	63	36	13	14	NA
1956.....		718	114	253	37	216	NA	220	143	19	20	15	24	58	74	42	15	17	NA
1957.....		814	124	271	41	230	NA	261	167	25	23	20	27	72	87	49	15	23	NA
1958.....		944	149	295	43	252	NA	312	202	31	24	24	31	85	103	59	16	28	NA
1959.....		1,087	165	320	72	248	NA	388	263	38	24	28	36	95	120	72	18	30	NA
1960.....		1,286	184	376	79	297	NA	485	341	45	25	33	41	106	136	85	21	30	NA
1961.....		1,512	230	395	81	314	NA	598	432	54	25	40	48	126	164	105	22	37	NA
1962.....		1,824	252	488	143	345	NA	737	546	64	25	48	55	148	200	130	24	46	NA
1963.....		2,115	285	522	147	375	NA	909	689	75	25	58	63	175	225	150	25	50	NA
1964.....		2,396	339	507	123	384	42	1,071	824	84	25	70	68	200	238	166	25	47	NA
1965.....		2,664	375	563	157	406	29	1,221	944	94	27	86	70	218	260	179	29	52	NA
1966.....		2,930	410	593	142	451	31	1,380	1,066	104	29	106	75	239	278	188	32	58	NA
1967.....		3,168	434	595	168	427	34	1,554	1,188	114	34	136	83	263	289	194	34	61	NA
1968.....		3,376	482	607	145	462	35	1,681	1,265	131	38	156	91	276	296	196	37	63	NA
1969.....		3,491	545	581	123	458	37	1,754	1,288	153	40	171	103	272	302	192	43	67	NA
1970.....		3,594	562	566	122	444	36	1,855	1,323	179	43	196	115	265	311	195	44	72	NA
1971.....		3,720	581	557	101	456	33	1,968	1,385	194	50	214	127	252	329	207	45	77	NA
1972.....		3,850	603	554	91	463	39	2,038	1,437	195	55	216	134	270	347	216	47	84	NA
1973.....		4,099	652	595	96	499	36	2,103	1,489	196	59	223	137	343	371	232	49	90	NA
1974.....		4,511	715	650	114	536	49	2,282	1,609	204	66	250	153	415	401	245	54	102	NA
1975.....		4,875	760	677	104	573	53	2,480	1,768	212	72	264	164	476	430	255	59	116	NA
1976.....		5,373	850	750	116	634	69	2,675	1,924	218	75	283	175	556	474	278	65	131	NA
1977.....		6,008	943	836	135	701	75	2,967	2,114	232	89	334	198	667	521	301	72	148	NA
1978.....		6,959	1,044	941	156	785	94	3,376	2,399	260	107	398	213	906	598	351	79	168	NA
1979.....		7,836	1,112	1,054	161	893	104	3,828	2,719	286	128	466	229	1,050	689	413	87	190	NA
1980.....		8,790	1,212	1,205	170	1,035	120	4,315	3,061	307	156	544	248	1,167	771	461	95	215	NA
1981.....		9,830	1,343	1,477	164	1,313	137	4,737	3,331	338	183	615	269	1,284	853	505	105	243	NA
1982.....		10,824	1,522	1,776	253	1,523	128	5,091	3,475	368	215	716	317	1,366	941	551	115	275	NA
1983.....		12,059	1,733	2,106	346	1,760	117	5,518	3,689	396	260	816	358	1,536	1,050	613	127	311	NA
1984.....		13,484	1,877	2,472	340	2,132	136	6,145	4,087	436	313	915	395	1,709	1,147	656	139	351	NA
1985.....		14,857	1,947	2,731	358	2,373	131	7,024	4,606	514	389	1,075	440	1,793	1,231	681	153	397	NA
1986.....		17,247	2,026	3,930	434	3,496	117	7,943	5,122	606	466	1,262	488	1,915	1,317	700	168	449	NA
1987.....		18,498	2,047	4,181	598	3,583	142	8,644	5,527	659	514	1,399	545	2,086	1,399	707	185	507	NA
1988.....		19,786	2,116	4,163	656	3,507	337	9,343	5,937	705	565	1,529	607	2,272	1,531	756	203	573	24
1989.....		21,889	2,309	4,818	986	3,832	398	10,218	6,422	766	637	1,714	680	2,371	1,730	860	223	647	46
1990.....		23,028	2,319	4,629	869	3,760	499	11,125	6,888	847	705	1,929	756	2,470	1,922	947	245	730	65
1991.....		27,139	2,378	7,376	1,251	6,125	461	12,061	7,423	912	764	2,127	836	2,657	2,129	1,036	269	825	77

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(Millions of current dollars)

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	Funding sector:			Total	Federal ^b	Industry ^c	Federal ^b	Total	Federal	Nonfederal ^d	Industry	U&C	Nonprofit	Federal ^e	Total	Federal ^b	Industry	Nonprofit	Federal ^b
1992.....		27,604	2,419	6,528	712	5,816	474	12,910	8,058	941	814	2,202	893	2,867	2,340	1,114	295	931	67
1993.....		28,741	2,621	6,427	466	5,961	492	13,645	8,638	952	851	2,268	936	2,953	2,532	1,157	324	1,051	72
1994.....		29,648	2,547	6,514	436	6,078	503	14,398	9,138	991	889	2,406	974	2,934	2,678	1,137	356	1,186	75
1995.....		29,607	2,689	5,569	190	5,379	530	15,144	9,633	1,069	945	2,510	987	2,702	2,899	1,170	390	1,338	75
1996.....		32,796	2,680	7,498	650	6,848	708	16,039	10,091	1,149	1,032	2,739	1,028	2,606	3,187	1,248	428	1,510	79
1997.....		36,910	2,746	9,795	1,029	8,766	625	17,643	10,915	1,248	1,175	3,144	1,161	2,671	3,322	1,317	449	1,557	108
1998.....		35,268	3,003	5,853	1,002	4,851	568	19,315	11,886	1,331	1,316	3,485	1,297	2,660	3,656	1,461	493	1,702	213
1999.....		38,830	3,347	6,669	1,132	5,537	533	20,929	12,790	1,434	1,423	3,840	1,443	2,765	4,191	1,734	546	1,910	397
2000.....		42,567	3,765	7,053	938	6,115	534	22,856	13,904	1,550	1,500	4,296	1,605	2,874	4,870	2,099	621	2,150	616
2001.....		47,553	4,260	8,053	754	7,299	552	25,181	15,507	1,663	1,518	4,731	1,762	3,104	5,488	2,464	629	2,395	915
2002.....		51,033	4,511	7,547	888	6,659	619	27,853	17,616	1,769	1,492	5,078	1,898	3,714	5,812	2,575	602	2,635	979
2003.....		55,104	4,700	8,585	1,628	6,957	679	30,047	19,379	1,859	1,466	5,351	1,993	3,799	6,222	2,766	622	2,834	1,071
2004.....		58,356	4,887	9,278	1,851	7,427	706	31,735	20,589	1,974	1,458	5,605	2,109	3,917	6,651	2,944	666	3,042	1,181

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).