

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

(Millions of current dollars)

Year	Funding sector:																		
	Performing sector:	Total	Federal							Industry				U&C	Nonprofit		Nonfederal <sup>a</sup>		
	Total	Total	Federal	Industry <sup>b</sup>	Industry FFRDCs <sup>b</sup>	U&C	U&C FFRDCs <sup>d</sup>	Non-profit <sup>b</sup>	Nonprofit FFRDCs <sup>b</sup>	Total	Industry <sup>e</sup>	U&C <sup>c</sup>	Nonprofit	U&C <sup>c</sup>	Total	Nonprofit	U&C <sup>c</sup>	U&C <sup>c</sup>	
1953.....	460	265	102	19	NA	82	36	27	NA	154	132	13	9	6	28	12	16	7	
1954.....	509	291	96	23	NA	97	44	31	NA	169	143	15	11	8	31	13	18	10	
1955.....	579	327	98	27	NA	117	50	36	NA	192	162	17	13	12	35	14	21	14	
1956.....	718	393	114	37	NA	143	58	42	NA	251	216	20	15	15	41	17	24	19	
1957.....	814	452	124	41	NA	167	72	49	NA	268	230	23	15	20	50	23	27	25	
1958.....	944	538	149	43	NA	202	85	59	NA	292	252	24	16	24	59	28	31	31	
1959.....	1,087	666	165	72	NA	263	95	72	NA	290	248	24	18	28	66	30	36	38	
1960.....	1,286	794	184	79	NA	341	106	85	NA	343	297	25	21	33	71	30	41	45	
1961.....	1,512	973	230	81	NA	432	126	105	NA	361	314	25	22	40	85	37	48	54	
1962.....	1,824	1,218	252	143	NA	546	148	130	NA	394	345	25	24	48	101	46	55	64	
1963.....	2,115	1,446	285	147	NA	689	175	150	NA	425	375	25	25	58	113	50	63	75	
1964.....	2,396	1,693	339	123	42	824	200	166	NA	434	384	25	25	70	115	47	68	84	
1965.....	2,664	1,900	375	157	29	944	218	179	NA	462	406	27	29	86	122	52	70	94	
1966.....	2,930	2,075	410	142	31	1,066	239	188	NA	512	451	29	32	106	133	58	75	104	
1967.....	3,168	2,280	434	168	34	1,188	263	194	NA	495	427	34	34	136	144	61	83	114	
1968.....	3,376	2,399	482	145	35	1,265	276	196	NA	537	462	38	37	156	154	63	91	131	
1969.....	3,491	2,457	545	123	37	1,288	272	192	NA	541	458	40	43	171	170	67	103	153	
1970.....	3,594	2,501	562	122	36	1,323	265	195	NA	531	444	43	44	196	187	72	115	179	
1971.....	3,720	2,559	581	101	33	1,385	252	207	NA	551	456	50	45	214	204	77	127	194	
1972.....	3,850	2,656	603	91	39	1,437	270	216	NA	565	463	55	47	216	218	84	134	195	
1973.....	4,099	2,847	652	96	36	1,489	343	232	NA	607	499	59	49	223	227	90	137	196	
1974.....	4,511	3,146	715	114	49	1,609	415	245	NA	656	536	66	54	250	254	102	153	204	
1975.....	4,875	3,415	760	104	53	1,768	476	255	NA	704	573	72	59	264	280	116	164	212	
1976.....	5,373	3,793	850	116	69	1,924	556	278	NA	774	634	75	65	283	305	131	175	218	
1977.....	6,008	4,235	943	135	75	2,114	667	301	NA	862	701	89	72	334	346	148	198	232	
1978.....	6,959	4,950	1,044	156	94	2,399	906	351	NA	970	785	107	79	398	380	168	213	260	
1979.....	7,836	5,558	1,112	161	104	2,719	1,050	413	NA	1,107	893	128	87	466	419	190	229	286	
1980.....	8,790	6,191	1,212	170	120	3,061	1,167	461	NA	1,286	1,035	156	95	544	463	215	248	307	
1981.....	9,830	6,764	1,343	164	137	3,331	1,284	505	NA	1,600	1,313	183	105	615	512	243	269	338	
1982.....	10,824	7,295	1,522	253	128	3,475	1,366	551	NA	1,854	1,523	215	115	716	591	275	317	368	
1983.....	12,059	8,032	1,733	346	117	3,689	1,536	613	NA	2,146	1,760	260	127	816	668	311	358	396	
1984.....	13,484	8,804	1,877	340	136	4,087	1,709	656	NA	2,584	2,132	313	139	915	746	351	395	436	
1985.....	14,857	9,516	1,947	358	131	4,606	1,793	681	NA	2,915	2,373	389	153	1,075	837	397	440	514	
1986.....	17,247	10,313	2,026	434	117	5,122	1,915	700	NA	4,130	3,496	466	168	1,262	936	449	488	606	
1987.....	18,498	11,107	2,047	598	142	5,527	2,086	707	NA	4,282	3,583	514	185	1,399	1,052	507	545	659	
1988.....	19,786	12,097	2,116	656	337	5,937	2,272	756	24	4,274	3,507	565	203	1,529	1,180	573	607	705	
1989.....	21,889	13,392	2,309	986	398	6,422	2,371	860	46	4,692	3,832	637	223	1,714	1,326	647	680	766	
1990.....	23,028	14,056	2,319	869	499	6,888	2,470	947	65	4,710	3,760	705	245	1,929	1,486	730	756	847	
1991.....	27,139	15,283	2,378	1,251	461	7,423	2,657	1,036	77	7,157	6,125	764	269	2,127	1,660	825	836	912	
1992.....	27,604	15,710	2,419	712	474	8,058	2,867	1,114	67	6,925	5,816	814	295	2,202	1,824	931	893	941	

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1993.....	28,741	16,398	2,621	466	492	8,638	2,953	1,157	72	7,136	5,961	851	324	2,268	1,987	1,051	936	952	
1994.....	29,648	16,769	2,547	436	503	9,138	2,934	1,137	75	7,323	6,078	889	356	2,406	2,160	1,186	974	991	
1995.....	29,607	16,989	2,689	190	530	9,633	2,702	1,170	75	6,714	5,379	945	390	2,510	2,326	1,338	987	1,069	
1996.....	32,796	18,061	2,680	650	708	10,091	2,606	1,248	79	8,308	6,848	1,032	428	2,739	2,539	1,510	1,028	1,149	
1997.....	36,910	19,411	2,746	1,029	625	10,915	2,671	1,317	108	10,390	8,766	1,175	449	3,144	2,718	1,557	1,161	1,248	
1998.....	35,268	20,793	3,003	1,002	568	11,886	2,660	1,461	213	6,660	4,851	1,316	493	3,485	2,999	1,702	1,297	1,331	
1999.....	38,830	22,697	3,347	1,132	533	12,790	2,765	1,734	397	7,506	5,537	1,423	546	3,840	3,354	1,910	1,443	1,434	
2000.....	42,567	24,730	3,765	938	534	13,904	2,874	2,099	616	8,236	6,115	1,500	621	4,296	3,755	2,150	1,605	1,550	
2001.....	47,553	27,557	4,260	754	552	15,507	3,104	2,464	915	9,445	7,299	1,518	629	4,731	4,157	2,395	1,762	1,663	
2002.....	51,033	30,900	4,511	888	619	17,616	3,714	2,575	979	8,753	6,659	1,492	602	5,078	4,533	2,635	1,898	1,769	
2003.....	55,104	34,022	4,700	1,628	679	19,379	3,799	2,766	1,071	9,045	6,957	1,466	622	5,351	4,827	2,834	1,993	1,859	
2004.....	58,356	36,075	4,887	1,851	706	20,589	3,917	2,944	1,181	9,551	7,427	1,458	666	5,605	5,150	3,042	2,109	1,974	

NA = not available

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

<sup>a</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>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>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>d</sup>Includes all R&D expenditures of FFRDCs administered by academic institutions.

<sup>e</sup>Industry 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).