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- Year	Funding sector:  Performing sector:	Total Total	Federal Government								Industry				U&C	Nonprofits			Non- Federal <sup>a</sup>
			Total	Federal	Industryb	Industry FFRDCs <sup>b</sup>	U&C°	U&C FFRDCs <sup>d</sup>	Non- profits <sup>b</sup>	Nonprofit FFRDCs <sup>b</sup>	Total	Industrye	U&C°	Non- profits	U&C°	Total	Non- profits	U&C°	U&C°
1953 .		17,722	9,153	2,943	5,834	_	44	247	86	_	8,504	8,468	5	31	14	36	31	5	15
		19,208	10,424	2,762	7,227	_	44	301	90	_	8,709	8,668	5	36	16	41	36	5	18
1955 .		21,178	12,267	2,743	9,024	_	58	349	94	_	8,835	8,787	8	40	16	40	35	5	19
1956 .		28,628	17,413	3,083	13,775	_	66	394	95	_	11,134	11,086	10	39	18	42	34	7	22
		31,619	21,188	3,443	17,113	_	57	478	97	_	10,338	10,289	12	38	20	47	38	9	25
1958 .		33,334	22,830	3,889	18,216	_	58	555	113	_	10,407	10,356	14	37	20	51	42	9	26
1959 .		38,679	26,835	4,296	21,709	_	71	612	146	_	11,741	11,686	14	41	21	55	46	9	27
		42,181	28,795	4,518	23,294	_	86	678	219	_	13,283	13,227	11	45	21	54	45	9	28
1961 .		44,249	29,860	4,855	23,828	_	96	755	325	_	14,265	14,211	9	45	23	71	62	9	31
		44,483	30,004	5,396	23,223	_	99	836	451	_	14,332	14,274	9	48	25	88	79	9	34
1963.		50,172	34,589	6,370	26,591	_	96	950	583	_	15,426	15,370	9	48	26	96	87	9	34
1964.		53,451	36,759	7,198	26,375	1,407	126	970	681	_	16,542	16,487	9	47	28	88	77	11	34
1965 .		55,515	36,703	7,521	26,148	1,196	202	868	767	_	18,642	18,583	8	50	33	101	84	17	36
1966 .		59,301	38,761	7,711	28,001	1,171	249	818	812	_	20,348	20,282	8	57	39	114	94	20	38
1967.		60,797	37,749	7,707	26,954	1,180	260	825	823	_	22,854	22,785	10	60	40	121	95	26	34
1968 .		61,494	37,167	7,240	26,783	1,188	272	859	825	_	24,129	24,053	15	61	35	133	99	34	29
		61,815	35,708	7,306	25,169	1,218	288	892	835	_	25,915	25,832	18	65	29	138	101	36	26
1970.		58,329	32,374	7,770	21,445	1,258	287	857	757	_	25,771	25,692	17	62	24	138	103	34	22
1971.		57,025	31,344	8,101	20,206	1,299	226	875	636	_	25,491	25,416	13	62	28	136	108	28	26
		58,899	31,864	8,294	20,531	1,259	196	915	669	_	26,815	26,744	11	60	43	138	110	28	39
1973.		60,228	30,806	7,908	19,705	1,307	210	879	796	_	29,161	29,086	15	60	59	150	113	37	52
1974.		58,799	28,767	7,552	17,895	1,384	203	877	856	_	29,755	29,678	18	59	67	156	115	41	55
1975.		56,870	27,610	7,219	16,945	1,485	206	931	824	_	28,979	28,901	20	58	69	157	117	40	55
		59,328	28,477	7,025	17,783	1,571	235	1,057	806	_	30,560	30,473	27	60	74	161	123	38	57
		61,499	29,260	7,081	18,381	1,543	340	1,118	797	_	31,919	31,826	32	61	89	170	128	41	62
1978.		64,421	29,852	7,622	18,155	1,591	526	1,123	835	_	34,220	34,128	30	61	102	182	133	49	66
1979 .		67,873	30,779	7,548	18,924	1,585	644	1,155	923	_	36,732	36,641	30	61	107	189	137	53	65
1980 .		71,344	30,740	7,140	19,209	1,576	634	1,260	920	_	40,226	40,131	34	61	119	193	139	54	67
1981.		73,844	32,056	7,264	20,508	1,539	619	1,247	880	_	41,393	41,295	38	60	128	197	141	56	70
1982 .		78,031	33,418	7,816	21,457	1,517	600	1,124	904	_	44,205	44,104	40	61	133	206	147	59	69
1983 .		83,537	35,755	8,864	22,535	1,531	580	1,207	1,038	_	47,353	47,244	45	63	141	219	158	62	69
1984 .		92,767	39,378	9,908	24,692	1,494	609	1,380	1,295	_	52,933	52,815	52	66	151	234	169	65	72
1985 .		101,002	43,712	10,871	27,491	1,510	660	1,688	1,493	_	56,801	56,673	59	69	163	248	182	67	78
1986 .		100,617	45,031	10,988	28,571	1,549	682	1,997	1,245	_	55,052	54,912	67	73	181	267	197	70	87
		102,926	47,193	10,538	31,093	1,645	772	2,152	994	_	55,148	54,997	74	77	200	291	213	78	94
1988 .		105,434	46,487	11,051	29,571	1,766	870	2,197	508	524	58,303	58,140	83	80	224	317	228	89	103
1989 .		105,352	42,420	11,235	25,278	1,713	928	2,140	609	517	62,234	62,058	91	84	246	342	244	98	110
1990 .		108,719	39,122	11,213	21,923	1,646	1,051	2,006	716	567	68,857	68,674	96	87	262	364	261	103	115
1991 .		106,069	34,817	9,790	19,246	1,539	1,128	1,714	805	594	70,486	70,299	96	91	267	385	280	105	115
1992.		108,587	34,223	9,906	18,708	1,403	1,148	1,581	825	653	73,570	73,375	99	96	268	412	303	109	114

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Appendix table 4-18
U.S. inflation-adjusted development expenditures, by source of funds and performing sector: 1953–2002
(Millions of constant 1996 dollars)

Non-Funding Federal Government Total Industry U&C Nonprofits sector: Federal<sup>a</sup> U&C Performing Industry Non-Nonprofit Non-Non-Total Industryb FFRDCs<sup>b</sup> U&Cc FFRDCs<sup>d</sup> profitsb FFRDCs<sup>b</sup> U&C profits U&C° profits U&Cc U&Cc Year sector: Total Federal Total Industrye Total 1993 ..... 106,054 31,997 9,645 17,100 1.146 1.197 1,461 836 611 73.223 73.019 103 101 276 443 329 114 116 107,217 31,464 9,190 16,883 1,249 1,436 849 596 74,873 74,660 106 107 287 474 358 116 118 1994 ..... 1,262 1,270 1995 ..... 115,305 33,101 9,441 18,169 1,201 1,647 758 615 81,282 81,058 110 113 293 504 389 115 125 31,355 9.033 17.066 1.342 1.127 1.520 698 571 89.032 88.797 115 120 305 538 423 115 128 1996 ...... 121.359 1997 ..... 126,210 31,650 8,903 17,774 1,264 1,035 1,426 673 573 93,508 93,245 111 152 298 636 526 110 119 109 1998 ..... 140,203 31,689 8,928 17,880 1,218 955 1,480 736 491 107,433 107,160 110 163 293 677 568 112 693 116,398 178 308 744 629 115 115 1999 ...... 146,148 28,583 8,575 15,498 1,128 679 1,563 446 116,106 114 2000 ...... 155,158 24,217 7,529 12,679 1,069 422 1,440 480 599 129,675 129,362 116 197 329 817 694 123 119 2001 preliminary ..... 149,187 24,533 8,744 11,463 1,061 456 1,436 531 843 123,298 122,986 118 194 357 874 743 131 124 1,193 1.313 549 119,105 121 386 938 799 139 128 2002 preliminary ..... 146,285 25,728 10.024 11,463 431 755 118.796 187

FFRDC federally funded research and development center

U&C universities and colleges

\*Because of limitations in survey information, data on non-Federal Government funding to other performers are not available and are consequently included in other sectors' support for their own R&D performance. For example, non-Federal Government support to nonprofits is included in nonprofits' support for their own R&D.

Expenditures of industry FFRDCs for 1953–63 were not separated from total Federal support to the industrial sector. Thus, the figure for Federal support to industry includes support to FFRDCs for those years. The same is true for expenditures of nonprofit FFRDCs, which are included in Federal support for nonprofit institutions in 1953–87.

Adjustments have been made to university R&D for 1998 and later years to eliminate double counting of funds passed through from one academic institution to another. The character-of-work estimation procedure for university and college R&D also was revised for 1998 and later years; hence, these data are not directly comparable with data for 1997 and earlier years.

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

elndustry sources of industry R&D expenditures include all non-Federal sources of industry R&D expenditures.

NOTES: Expenditure levels for academic and Federal Government performers are also in reference to calendar years. These levels are approximations based on FY data. For Federal Government expenditures starting in 1977, the calendar-year approximation is 75 percent of the amount reported in the subsequent FY. Academic expenditures in all years and Federal Government expenditures prior to 1977 are 50 and 50 percent, respectively, because those FYs (for most academic institutions and the Federal Government before 1977) began on July 1 instead of October 1. Because of changes in estimation procedures, character-of-work data before 1998 for industry and for U&C are not comparable with data for later years. Technical notes explaining methodological issues of measurement will be provided in NSF, *The Methodology Underlying the Measurement of R&D Expenditures: 2002* (Arlington, VA, forthcoming). Data are based on annual reports by performers except for the nonprofit sector. Data are preliminary for 2001 and 2002. For trend comparisons, use only the historical data reported here. Do not use data published earlier.

SOURCES: Data were derived from National Science Foundation, Division of Science Resources Statistics, National Patterns of R&D Resources, annual series.

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