

**Table 3A. National expenditures for Applied Research: Performance by sector, broken down by sources of funds: 1990-97<sup>1</sup>**

(See the historical database provided in Table 7 for the full series of historical data, arranged by the same data columns as defined in this and other tables.)

Performing Sector:	Total U.S.	Federal Govt.	Industry			Industry FFRDCs	Universities & Colleges <sup>4</sup>						U&C FFRDCs	Other Nonprofit institutions				Nonprofit FFRDCs
Funding Sector:	Total U.S.	Federal Govt.	Total	Federal Govt. <sup>2</sup>	Industry <sup>3</sup>	Federal Govt. <sup>2</sup>	Total	Federal Govt.	Nonfed. Govt.	Industry	U&C	Non-Profits	Federal Govt. <sup>5</sup>	Total	Federal Govt. <sup>2</sup>	Industry	Non-Profits	Federal Govt. <sup>2</sup>
Data Column Calendar Year <sup>6</sup>	[85]	[86]	[87]	[88]	[89]	[90]	[91]	[92]	[93]	[94]	[95]	[96]	[97]	[98]	[99]	[100]	[101]	[102]
<b>Millions of current dollars</b>																		
1990	34,981	3,652	24,399	5,967	18,432	386	4,369	2,147	443	374	1,008	397	689	1,405	780	212	413	81
1991 <sup>7</sup>	38,699	4,094	27,013	5,588	21,425	433	4,544	2,176	470	389	1,085	424	927	1,603	921	231	451	86
1992	37,995	4,337	25,660	4,476	21,184	507	4,810	2,375	471	406	1,111	446	940	1,660	933	243	483	81
1993	37,318	4,838	24,251	4,295	19,956	435	5,068	2,500	495	437	1,157	479	962	1,661	900	251	511	103
1994	36,615	5,006	22,988	3,616	19,372	503	5,272	2,565	507	459	1,235	506	981	1,753	957	260	536	112
1995	40,927	5,054	26,919	3,164	23,755	535	5,532	2,687	536	486	1,305	517	979	1,779	951	282	546	129
1996 prelim.	43,353	5,000	29,065	3,125	25,940	535	5,779	2,814	555	515	1,360	535	979	1,883	1,012	304	567	111
1997 prelim.	46,208	5,083	31,663	3,102	28,560	535	5,975	2,869	580	545	1,420	560	979	1,863	940	329	595	110
<b>Millions of constant 1992 dollars</b>																		
1990	37,357	3,900	26,056	6,372	19,684	412	4,666	2,293	473	399	1,076	424	736	1,500	832	227	441	87
1991 <sup>7</sup>	39,765	4,206	27,757	5,742	22,015	445	4,669	2,236	483	400	1,115	435	952	1,647	946	238	463	89
1992	37,995	4,337	25,660	4,476	21,184	507	4,810	2,375	471	406	1,111	446	940	1,660	933	243	483	81
1993	36,367	4,715	23,633	4,186	19,447	424	4,939	2,436	483	425	1,128	467	938	1,619	877	244	498	100
1994	34,886	4,770	21,902	3,445	18,457	479	5,023	2,444	483	437	1,177	482	935	1,670	912	247	511	106
1995	38,049	4,698	25,026	2,941	22,084	497	5,143	2,498	498	452	1,214	481	911	1,654	884	262	507	120
1996 prelim.	39,404	4,545	26,418	2,840	23,578	486	5,253	2,557	504	469	1,236	487	890	1,711	919	276	515	101
1997 prelim.	40,924	4,502	28,042	2,748	25,295	474	5,291	2,541	514	483	1,258	496	867	1,650	832	291	527	97

<sup>1</sup> The next updates of these data, covering the years 1953-98, along with technical notes explaining methodological issues of measurement, will be provided in NSF, *National Patterns of R&D Resources: 1998* (forthcoming).

<sup>2</sup> For 1953-63, applied research of industry FFRDCs is not separated out from total Federal support to the industrial sector for applied research. Thus, the figure for Federal support to industry for applied research includes support for applied research at industry FFRDCs for those years. The same is true for applied research by nonprofit FFRDCs in 1953-87, which is included in Federal support for applied research at nonprofit institutions for those years.

<sup>3</sup> Industry sources of industry R&D expenditures include all non-Federal sources of industry R&D expenditures.

<sup>4</sup> The breakdown of academic applied research performance by sources other than the Federal government has been estimated for all years.

<sup>5</sup> Includes all R&D expenditures of FFRDCs administered by academic institutions. In 1994, 99 percent of total funds used were from Federal sources.

<sup>6</sup> Expenditure levels for academic and Federal government performers are also in reference to calendar years, which represents a change from previous reporting in *National Patterns of R&D Resources*. These levels are approximations based on fiscal-year data. For academic expenditures, and Federal government expenditures starting in 1977, the calendar-year approximation is equal to 75 percent of the amount reported in the same fiscal year plus 25 percent of the amount reported in the subsequent fiscal year. For Federal government expenditures prior to 1977, the respective percentages are 50 and 50, since earlier fiscal years began on July 1 instead of October 1.

<sup>7</sup> Due to revisions in survey methodology and sampling of industrial R&D, data for 1991 and subsequent years may not be comparable to data for previous years. (See *National Patterns of R&D Resources: 1996* or *National Patterns of R&D Resources: 1998*, forthcoming.)

Key: FFRDCs=Federally Funded Research and Development Centers; U&C=universities and colleges

NOTES: Data are based on annual reports by performers except for the nonprofit sector; R&D expenditures by nonprofit sector performers have been estimated since 1973 on the basis of a survey conducted in that year. Data are preliminary for 1996 and 1997. The procedure for estimating the breakdown of industry R&D into basic research, applied research, and development was revised for 1986 and later years.

SOURCES: National Science Foundation/SRS. Data were derived from NSF/SRS, Research and Development in Industry 1995; NSF/SRS, Academic Science/Engineering: R&D Expenditures, Fiscal Year 1995; NSF/SRS, Federal Funds for Research and Development; Fiscal Years 1995, 1996, and 1997; industry data available in Standard and Poors Compustat; and an independent survey conducted by the Industrial Research Institute.