

## U.S. applied research expenditures, by funding and performing sectors: 1953–2006

(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,c</sup>	Industry FFRDCs <sup>b</sup>	U&C <sup>d</sup>	U&C FFRDCs <sup>e</sup>	Nonprofit <sup>b</sup>	Nonprofit FFRDCs <sup>b</sup>	Total	Industry <sup>c,f</sup>	U&C <sup>d</sup>	Nonprofit	U&C <sup>d</sup>	Total	Nonprofit	U&C <sup>d</sup>	U&C <sup>d</sup>	
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.....	13,714	6,237	2,546	1,625	275	912	421	458	NA	6,698	6,550	88	60	308	298	158	140	174	
1981.....	16,329	6,837	2,731	2,042	298	953	422	391	68	8,531	8,359	108	64	363	332	173	159	199	
1982.....	18,218	7,599	2,802	2,593	367	1,007	433	398	91	9,553	9,363	121	69	402	367	189	178	207	
1983.....	20,298	8,660	2,991	3,227	414	1,122	473	433	78	10,501	10,286	141	74	443	401	207	194	215	
1984.....	22,451	9,419	2,961	3,677	547	1,226	548	459	80	11,788	11,541	168	79	491	438	226	212	234	
1985.....	25,401	10,848	3,135	4,717	630	1,296	580	490	82	13,191	12,908	198	85	547	471	247	224	262	
1986.....	27,240	10,334	3,204	4,049	629	1,393	554	506	75	15,402	15,082	229	91	620	510	270	240	298	
1987.....	27,951	10,755	3,366	4,037	623	1,643	532	555	74	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	

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	Total	Total	Federal	Industry <sup>b,c</sup>	FFRDCs <sup>b</sup>	U&C <sup>d</sup>	U&C	Nonprofit	FFRDCs <sup>e</sup>	Nonprofit	Total	Industry <sup>c,f</sup>	U&C <sup>d</sup>	Nonprofit	U&C <sup>d</sup>	Total	Nonprofit	U&C <sup>d</sup>	U&C <sup>d</sup>
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.....	37,280	14,072	4,838	4,295	435	2,539	962	900	103	20,547	19,956	443	148	1,181	984	497	487	496	
1994.....	36,615	13,797	4,985	3,616	503	2,641	982	960	111	19,995	19,372	464	158	1,256	1,050	541	509	517	
1995.....	40,932	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	559	
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.....	46,551	12,882	4,997	2,648	213	2,548	1,337	1,011	128	30,505	29,782	518	205	1,388	1,223	711	512	552	
1998.....	46,388	12,849	5,146	2,632	230	2,286	1,372	1,060	123	30,319	29,576	520	223	1,376	1,318	806	512	526	
1999.....	52,096	14,042	5,530	2,817	274	2,740	1,251	1,300	130	34,612	33,821	541	249	1,461	1,437	888	549	545	
2000.....	56,932	15,783	6,105	2,682	269	3,350	1,329	1,831	217	37,330	36,494	553	283	1,586	1,660	1,069	592	572	
2001.....	64,706	19,309	7,052	3,603	935	3,752	1,485	2,150	332	41,246	40,409	550	287	1,715	1,834	1,194	639	602	
2002.....	51,033	19,518	7,487	2,452	1,103	4,214	1,685	2,267	309	26,903	26,081	548	275	1,862	2,102	1,402	700	648	
2003.....	61,448	22,822	7,672	4,473	1,434	4,637	1,756	2,487	363	33,693	32,861	548	283	1,969	2,259	1,529	729	705	
2004.....	70,093	23,575	7,532	4,775	1,521	4,951	1,935	2,496	364	41,504	40,657	556	292	2,012	2,272	1,525	747	731	
2005.....	71,207	24,890	7,870	5,289	1,532	5,298	1,918	2,576	407	40,901	39,995	589	318	2,165	2,506	1,718	788	744	
2006.....	74,653	24,892	7,750	5,446	1,482	5,451	1,805	2,559	399	43,960	42,995	623	342	2,363	2,660	1,825	836	777	

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; therefore, value for federal support to industry includes support to FFRDCs for those years. Similarly for expenditures of nonprofit FFRDCs, included in federal support for nonprofit institutions in 1953–80.

<sup>c</sup>Character-of-work estimates for industry R&D revised for 1998 on; therefore, data not directly comparable with data for 1997 and earlier.

<sup>d</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; therefore, data not directly comparable with data for 1997 and earlier.

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

<sup>f</sup>Industry sources of industry R&D expenditures include all nonfederal sources of industry R&D expenditures.

NOTES: All data for calendar years. For some performers, these levels are approximations based on fiscal year data. For federal government expenditures starting in 1977, calendar-year approximation is 75% of amount reported in same fiscal year plus 25% of amount reported in subsequent fiscal year. Academic expenditures in all years and federal government expenditures before 1977 each 50% because those fiscal years (for most academic institutions and federal government before 1977) began on 1 July instead of 1 October. Technical notes explaining methodological issues of measurement available from National Science Foundation (NSF), Division of Science Resources Statistics (SRS) on request. Data based on annual reports by performers except for nonprofit sector. Preliminary data for 2005 and 2006. For trend comparisons, use only historical data reported here. Table incorporates latest revisions to prior-year data. Do not use data published earlier.

SOURCES: NSF/SRS, Research and Development in Industry 2005 (forthcoming); Academic Research and Development Expenditures: Fiscal Year 2005 (2007); Federal Funds for Research and Development: Fiscal Years 2004, 2005, and 2006 (2007); and Survey of Research and Development Funding and Performance by Nonprofit Organizations: FY 1996–97 (2001).