

Table 793. Research and Development (R&D) Expenditures by Source and Objective: 1980 to 2008

[In millions of dollars (63,224 represents \$63,224,000,000), except as indicated]

Year	Total	Sources of funds					Objective (percent of total)			Character of work		
		Federal government	Industry	Universities\ colleges	Non-profit	Non-federal government ¹	Defense related ²	Space related ³	Other	Basic research	Applied research	Development
1980	63,224	29,986	30,929	920	871	519	24.3	5.3	70.4	8,745	13,714	40,765
1981	72,292	33,739	35,948	1,058	967	581	24.4	5.2	70.4	9,658	16,329	46,305
1982	80,748	37,133	40,692	1,207	1,095	621	26.1	4.9	69.0	10,651	18,218	51,879
1983	89,950	41,451	45,264	1,357	1,220	658	27.7	4.2	68.1	11,880	20,298	57,771
1984	102,244	46,470	52,187	1,514	1,351	721	28.7	3.0	68.3	13,332	22,451	66,461
1985	114,671	52,641	57,962	1,743	1,491	834	29.9	3.1	67.0	14,748	25,401	74,522
1986	120,249	54,622	60,991	2,019	1,647	969	31.4	3.0	65.6	17,154	27,240	75,855
1987	126,360	58,609	62,576	2,262	1,849	1,065	31.7	3.2	65.1	18,481	27,951	79,929
1988	133,881	60,131	67,977	2,527	2,081	1,165	30.2	3.5	66.3	19,787	29,528	84,567
1989	141,891	60,466	74,966	2,852	2,333	1,274	27.6	3.9	68.5	21,891	32,277	87,723
1990	151,993	61,610	83,208	3,187	2,589	1,399	25.1	4.3	70.6	23,029	34,897	94,067
1991	160,876	60,783	92,300	3,458	2,852	1,483	22.4	4.5	73.1	27,140	38,631	95,105
1992	165,350	60,915	96,229	3,569	3,113	1,525	21.6	4.3	74.1	27,604	37,936	99,811
1993	165,730	60,528	96,549	3,709	3,388	1,557	21.2	4.4	74.4	28,743	37,283	99,705
1994	169,207	60,777	99,204	3,938	3,665	1,623	19.7	4.5	75.8	29,651	36,618	102,938
1995	183,625	62,969	110,871	4,110	3,925	1,751	18.6	4.5	76.9	29,610	40,936	113,079
1996	197,346	63,394	123,417	4,436	4,239	1,861	17.6	4.1	78.3	32,799	43,170	121,377
1997	212,152	64,574	136,228	4,838	4,590	1,922	16.7	4.1	79.2	36,921	46,554	128,677
1998	226,402	66,383	147,846	5,163	5,038	1,972	15.8	3.8	80.4	35,341	46,348	144,712
1999	244,922	67,055	164,660	5,619	5,489	2,098	14.6	3.2	82.2	38,887	52,006	154,029
2000	267,298	66,417	186,136	6,232	6,267	2,247	13.4	2.3	84.3	42,667	56,826	167,805
2001	277,366	72,836	188,440	6,827	6,867	2,397	14.0	2.4	83.6	47,617	64,583	165,167
2002	276,022	77,710	180,711	7,344	7,700	2,557	15.6	2.4	82.0	51,174	50,814	174,034
2003	288,324	83,618	186,174	7,650	8,140	2,742	16.5	2.3	81.2	54,375	61,563	172,386
2004	299,201	88,766	191,376	7,937	8,239	2,883	17.9	2.1	80.7	55,868	70,095	173,238
2005	322,104	93,817	207,826	8,579	8,960	2,922	17.1	2.0	80.9	59,462	70,215	192,427
2006	347,048	98,038	227,254	9,307	9,429	3,021	16.8	1.8	81.4	61,038	76,428	209,582
2007	372,535	101,772	246,927	9,993	10,593	3,249	16.2	1.5	82.3	65,988	83,214	223,333
2008 ⁴	397,629	103,709	267,847	10,600	12,020	3,453	15.3	1.4	83.3	69,146	88,591	239,891

¹ Nonfederal R&D expenditures to university and college performers. ² R&D spending by the Department of Defense, including space activities, and a portion of the Department of Energy funds. ³ For the National Aeronautics and Space Administration only. ⁴ Preliminary.

Source: U.S. National Science Foundation, *National Patterns of R&D Resources*, NSF 10-314, 2010. See also <www.nsf.gov/statistics/nsf10314/>.

Table 794. National Research and Development (R&D) Expenditures as a Percent of Gross Domestic Product by Country: 1990 to 2008

Year	United States	Japan ¹	Germany ²	France	United Kingdom	Italy	Canada	South Korea	OECD total ³	Russia ⁴	China ⁵
1990	2.65	2.81	2.61	2.32	2.14	1.25	1.51	(NA)	2.25	2.03	(NA)
1995	2.51	2.71	2.19	2.29	1.94	0.97	1.70	2.27	2.06	0.85	0.57
2000	2.75	3.04	2.45	2.15	1.85	1.05	1.91	2.30	2.21	1.05	0.90
2001	2.76	3.12	2.46	2.20	1.82	1.09	2.09	2.47	2.25	1.18	0.95
2002	2.66	3.17	2.49	2.23	1.82	1.13	2.04	2.40	2.22	1.25	1.07
2003	2.66	3.20	2.52	2.17	1.78	1.11	2.03	2.49	2.22	1.28	1.13
2004	2.54	3.17	2.49	2.15	1.69	1.10	2.08	2.68	2.17	1.15	1.23
2005	2.57	3.32	2.49	2.10	1.73	1.09	2.05	2.79	2.21	1.07	1.34
2006	2.61	3.41	2.53	2.10	1.76	1.13	1.97	3.01	2.24	1.07	1.42
2007	2.66	3.44	2.53	2.04	1.82	1.18	1.90	3.21	2.28	1.12	1.44
2008	2.77	(NA)	(NA)	2.02	1.88	1.18	1.84	(NA)	(NA)	1.04	(NA)

NA Not available. ¹ Data on Japanese research and development after 1995 may not be consistent with data in earlier years because of changes in methodology. ² Data for 1990 are for West Germany only. ³ Organization for Economic Cooperation and Development. ⁴ As of May 16, 2007 Russia is an OECD accession candidate country. ⁵ As of 2007 China is an OECD enhanced engagement country.

Source: Organization for Economic Cooperation and Development, *Main Science and Technology Indicators*, 2009/2nd edition (copyright). See also <<http://www.oecd.org/>>.