

TABLE 12. Gross expenditures for R&D of selected countries, total and as share of gross domestic product: 1981–2010

Year	United States	EU	Germany	France	United Kingdom	Japan	China	South Korea
GERD PPP \$billions								
1981	72.7	na	18.5	11.0	11.9	25.6	NA	NA
1982	81.2	na	20.1	12.5	NA	29.2	NA	NA
1983	90.4	na	21.3	13.4	12.9	33.1	NA	NA
1984	102.9	na	22.7	14.7	NA	37.1	NA	NA
1985	115.2	na	25.6	15.8	14.9	42.7	NA	NA
1986	120.6	na	27.1	16.5	15.9	44.3	NA	NA
1987	126.7	na	29.5	17.7	16.6	48.8	NA	NA
1988	134.2	na	31.5	19.1	17.6	54.4	NA	NA
1989	142.2	na	33.8	21.0	18.8	61.4	NA	NA
1990	152.4	na	35.4	23.3	19.7	69.1	NA	NA
1991	161.4	na	39.6	24.4	19.3	73.4	7.5	7.1
1992	165.8	na	39.3	25.4	19.5	74.7	8.9	8.1
1993	166.1	na	38.5	26.2	20.6	74.9	9.8	9.6
1994	169.6	na	38.7	26.7	21.5	75.7	10.3	11.7
1995	184.1	138.5	40.2	27.5	21.9	82.3	10.5	13.3
1996	197.8	144.0	41.5	28.2	22.4	83.0	11.7	14.9
1997	212.7	151.1	43.3	28.5	23.1	87.8	14.7	16.3
1998	226.9	158.8	45.2	29.3	24.0	91.1	16.3	14.6
1999	245.5	170.2	49.4	30.8	25.9	92.8	20.6	15.8
2000	269.5	184.2	52.4	33.0	27.9	98.9	27.2	18.6
2001	280.2	196.2	54.4	35.8	29.2	104.0	31.7	21.3
2002	279.9	205.8	56.7	38.2	30.6	108.2	39.6	22.5
2003	293.9	210.1	59.4	36.8	31.0	112.3	47.1	24.0
2004	305.6	218.0	61.3	38.0	32.0	117.4	57.8	27.9
2005	328.1	229.9	64.3	39.2	34.1	128.7	71.1	30.6
2006	353.3	253.7	70.2	42.0	37.0	138.5	86.7	35.3
2007	380.1	270.4	74.1	44.0	38.8	147.6	102.4	40.7
2008	406.3	293.4	82.0	46.5	39.4	148.7	120.8	43.9
2009	405.1	299.0	83.3	49.1	39.6	137.3	154.1	47.2
2010	408.7	305.0	86.3	50.0	39.1	140.8	179.0	53.2
GERD/GDP (%)								
1981	2.34	na	2.35	1.90	2.35	2.26	NA	NA
1982	2.51	na	2.42	1.98	NA	2.35	NA	NA
1983	2.58	na	2.43	2.02	2.17	2.48	NA	NA
1984	2.64	na	2.43	2.11	NA	2.57	NA	NA
1985	2.75	na	2.60	2.17	2.20	2.69	NA	NA
1986	2.72	na	2.63	2.16	2.22	2.66	NA	NA
1987	2.70	na	2.74	2.20	2.15	2.74	NA	NA
1988	2.65	na	2.73	2.19	2.10	2.75	NA	NA
1989	2.61	na	2.71	2.23	2.11	2.84	NA	NA
1990	2.65	na	2.61	2.32	2.10	2.91	NA	NA
1991	2.72	na	2.47	2.32	2.03	2.89	0.73	1.80
1992	2.64	na	2.35	2.33	1.99	2.85	0.74	1.89
1993	2.51	na	2.28	2.36	2.02	2.79	0.70	2.06
1994	2.41	na	2.18	2.31	1.97	2.74	0.64	2.26
1995	2.50	1.66	2.19	2.28	1.91	2.87	0.57	2.30
1996	2.54	1.65	2.20	2.27	1.83	2.77	0.57	2.36
1997	2.55	1.66	2.24	2.19	1.77	2.83	0.64	2.41
1998	2.58	1.67	2.28	2.14	1.76	2.96	0.65	2.26
1999	2.63	1.72	2.41	2.16	1.82	2.98	0.76	2.17
2000	2.71	1.74	2.47	2.15	1.81	3.00	0.90	2.30
2001	2.72	1.76	2.47	2.20	1.79	3.07	0.95	2.47
2002	2.63	1.77	2.50	2.24	1.79	3.12	1.07	2.40
2003	2.64	1.76	2.54	2.18	1.75	3.14	1.13	2.49
2004	2.58	1.73	2.50	2.16	1.68	3.13	1.23	2.68
2005	2.60	1.74	2.51	2.11	1.73	3.31	1.32	2.79
2006	2.64	1.77	2.54	2.11	1.75	3.41	1.39	3.01

TABLE 12. Gross expenditures for R&D of selected countries, total and as share of gross domestic product: 1981–2010

Year	United States	EU	Germany	France	United Kingdom	Japan	China	South Korea
2007	2.71	1.77	2.53	2.08	1.78	3.46	1.40	3.21
2008	2.84	1.84	2.69	2.12	1.79	3.47	1.47	3.36
2009	2.91	1.92	2.82	2.26	1.86	3.36	1.70	3.56
2010	2.81	1.91	2.82	2.25	1.76	3.26	1.77	3.74

na = not applicable; NA = not available.

EU = European Union; GDP = gross domestic product; GERD = gross expenditures for R&D; PPP = purchasing power parity.

NOTES: Conversions of foreign currencies to U.S. dollars calculated with each country's GDP implicit price deflator and with Organisation for Economic Co-operation and Development (OECD) PPP exchange rates. Data for United States in this table reflect international standards for calculating gross expenditures on R&D, which vary slightly from National Science Foundation methods for tallying U.S. total R&D. Data for Germany, 1981–90, are for West Germany. EU data for all years based on current 27 EU member countries.

SOURCES: National Science Foundation/National Center for Science and Engineering Statistics, National Patterns of R&D Resources [annual series]; OECD, *Main Science and Technology Indicators*, volume 2012, issue 1.