

International comparisons

Table 1. Gross domestic expenditure on R&D (GERD) at current prices and PPPs

Million USD

	2000	2009	2010	2011	2012	2013	2014
Australia	7 964.1	..	20 572.2 ^c	20 955.6 ^c	..	23 084.0 ^c	..
Austria	4 476.1 ^c	8 857.6	9 592.5 ^c	9 906.5	11 155.3 ^c	11 918.5	12 168.0 ^{c,p}
Belgium	5 572.7	8 065.9	8 772.0	9 729.1	11 023.9	11 699.4	12 023.3 ^c
Canada	16 746.6	25 046.8	25 048.2	25 674.6	26 279.0 ^a	26 303.8	25 813.6 ^p
Chile	..	963.7 ^a	1 027.8	1 232.1	1 355.5	1 471.9	1 486.9 ^p
Czech Republic	1 864.1	3 659.2	3 799.0	4 683.8	5 406.1	6 031.9	6 556.1 ^p
Denmark	..	6 715.0	6 816.5	7 157.1	7 424.3	7 841.6	7 920.9 ^{c,p}
Estonia	81.4	376.3	444.6	733.4	724.9	614.0	529.9 ^p
Finland	4 446.3	7 512.4	7 658.3	7 892.0	7 486.2	7 321.7	7 050.8
France	32 969.4 ^a	49 741.1	50 765.0 ^a	53 428.4	54 829.9	57 986.8	58 750.3 ^p
Germany	52 361.4	82 795.6	87 882.6	96 282.4	100 697.1	102 573.0	106 780.8 ^{c,p}
Greece	..	2 129.8 ^c	1 928.6 ^c	1 986.9	2 007.4	2 383.6	2 435.7 ^p
Hungary	977.1 ^d	2 382.0	2 474.3	2 696.2	2 861.0	3 322.8	3 389.2
Iceland	216.5 ^c	337.8	..	314.8 ^{a,l}	..	259.0 ^a	272.3
Ireland	1 222.8 ^c	3 065.7 ^c	3 168.6 ^c	3 203.8 ^c	3 303.7 ^c	3 361.9 ^c	3 462.8 ^c
Israel ¹	6 162.8 ^{a,d}	8 501.2 ^d	8 658.7 ^d	9 523.4 ^d	10 448.8 ^d	10 998.9 ^d	11 376.5 ^d
Italy	15 252.3	24 640.9	25 168.9	25 769.3	27 164.4	28 128.1	27 744.4 ^p
Japan	98 758.0	136 954.0	140 607.4	148 389.2	152 325.6	162 347.2 ^a	166 861.3
Korea	18 533.1 ^q	45 987.3	52 172.8	58 379.7	64 862.5	68 051.5	72 266.8
Luxembourg	387.3	683.7	655.0	705.9	621.0 ^a	678.4	688.0 ^{c,p}
Mexico	3 362.8	7 009.8	7 865.7	8 058.5	8 574.0 ^{c,p}	10 053.4 ^{c,p}	11 682.7 ^{c,p}
Netherlands	9 065.7	12 366.2	12 831.0	14 736.6 ^a	15 093.7 ^a	15 778.0	16 054.5 ^p
New Zealand	..	1 655.2	..	1 766.6	..	1 902.8	..
Norway	..	4 675.4	4 747.1	5 057.4	5 317.9	5 608.4	5 755.2 ^p
Poland	2 605.6	4 863.1	5 726.5	6 394.7	7 914.3	8 113.9	9 031.1
Portugal	1 324.6 ^c	4 375.5	4 365.9	4 142.4	3 929.6	3 874.1	3 844.5 ^p
Slovak Republic	384.4	592.6	816.7	903.5	1 140.2	1 227.8	1 360.3
Slovenia	482.3	1 019.0	1 163.7	1 418.6 ^a	1 511.3	1 560.8	1 496.1 ^p
Spain	7 792.3	20 548.2	20 350.3	20 149.1	19 361.2	19 318.4	19 102.6 ^p
Sweden	..	12 720.7	12 594.1 ^c	13 419.7	13 879.5 ^c	14 304.1 ^m	13 882.8 ^p
Switzerland	5 767.2	..	..	..	13 571.2	..	..
Turkey	2 824.0	8 864.3	9 859.3	11 245.5	12 731.4	13 713.5	15 132.3
United Kingdom	27 865.3	39 420.2 ^c	38 165.6 ^c	39 132.6	38 811.9 ^c	41 743.4	44 174.1 ^{c,p}
United States	269 513.0 ^j	406 405.0 ^j	410 093.0 ^j	428 745.0 ^j	436 078.0 ^j	456 977.0 ^{j,p}	..
EU28 (OECD estimates)	184 195.3 ^b	300 130.7 ^b	308 831.3 ^b	328 622.1 ^b	340 652.0 ^b	354 003.4 ^b	363 047.7 ^b
OECD-Total	616 314.6^b	973 676.7^b	999 136.3^b	1 056 189.5^b	1 091 278.1^b	1 144 965.7^b	1 178 899.8^b
Argentina	1 592.8	3 410.0	3 837.9	4 471.7	5 185.8	5 531.5	..
China	33 044.5 ^a	185 266.7 ^a	213 460.1	247 808.3	292 062.9	333 521.6	368 731.6
Romania	468.8	1 493.2	1 516.6	1 726.2 ^a	1 738.4	1 452.9	1 505.0 ^b
Russian Federation	10 504.5	34 654.6	33 093.5	35 192.1	37 911.5	36 614.1	39 863.0
Singapore	3 003.5	6 633.2	7 218.1	8 359.7	8 176.9	8 686.4	..
South Africa	..	4 819.1	4 433.3	4 652.2	4 824.2
Chinese Taipei	9 182.7 ^d	22 651.1	25 060.8	27 422.7	29 055.1	30 751.3	32 429.6

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Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 2. Gross domestic expenditure on R&D (GERD) as a percentage of GDP

Percentage

	2000	2009	2010	2011	2012	2013	2014
Australia	1.48	..	2.20 ^c	2.13 ^c	..	2.11 ^c	..
Austria	1.89 ^c	2.61	2.74 ^c	2.68	2.89 ^c	2.96	2.99 ^{c,p}
Belgium	1.92	1.99	2.05	2.16	2.36	2.43	2.46 ^c
Canada	1.87	1.92	1.84	1.80	1.79 ^a	1.69	1.61 ^p
Chile	..	0.35 ^{a,y}	0.33 ^y	0.35 ^y	0.36 ^y	0.39 ^y	0.38 ^{p,y}
Czech Republic	1.12	1.30	1.34	1.56	1.79	1.91	2.00 ^p
Denmark	..	3.07	2.94	2.97	3.00	3.06	3.05 ^{c,p}
Estonia	0.60	1.40	1.58	2.31	2.11	1.71	1.43 ^p
Finland	3.25	3.75	3.73	3.64	3.42	3.30	3.17
France	2.08 ^a	2.21	2.18 ^a	2.19	2.23	2.24	2.26 ^p
Germany	2.39	2.72	2.71	2.79	2.87	2.83	2.84 ^{c,p}
Greece	..	0.63 ^c	0.60 ^c	0.67	0.70	0.81	0.83 ^p
Hungary	0.79 ^d	1.14	1.15	1.20	1.27	1.40	1.37
Iceland	2.60 ^c	2.66	..	2.49 ^{a,l}	..	1.87 ^a	1.89
Ireland	1.09 ^c	1.61 ^c	1.61 ^c	1.53 ^c	1.56 ^c	1.54 ^c	1.52 ^c
Israel ¹	3.93 ^{a,d}	4.12 ^d	3.93 ^d	4.01 ^d	4.13 ^d	4.09 ^d	4.11 ^d
Italy	1.01	1.22	1.22	1.21	1.27	1.31	1.29 ^p
Japan	3.00 ^y	3.36 ^y	3.25 ^y	3.38 ^y	3.34 ^y	3.47 ^{a,y}	3.58 ^y
Korea	2.18 ^g	3.29	3.47	3.74	4.03	4.15	4.29
Luxembourg	1.57	1.71	1.53	1.50	1.29 ^a	1.30	1.26 ^{c,p}
Mexico	0.33	0.43	0.45	0.43	0.43 ^{c,p}	0.50 ^{c,p}	0.54 ^{c,p}
Netherlands	1.81	1.69	1.72	1.90 ^a	1.94 ^a	1.96	1.97 ^p
New Zealand	..	1.26	..	1.25	..	1.17	..
Norway	..	1.72	1.65	1.63	1.62	1.65	1.71 ^p
Poland	0.64	0.67	0.72	0.75	0.88	0.87	0.94
Portugal	0.72 ^c	1.58	1.53	1.46	1.38	1.33	1.29 ^p
Slovak Republic	0.64	0.47	0.62	0.66	0.81	0.83	0.89
Slovenia	1.36	1.82	2.06	2.42 ^a	2.58	2.60	2.39 ^p
Spain	0.88	1.35	1.35	1.33	1.28	1.26	1.22 ^p
Sweden	..	3.45	3.22 ^c	3.25	3.28 ^c	3.31 ^m	3.16 ^p
Switzerland	2.33	..	..	..	2.97	..	..
Turkey	0.48 ^y	0.85 ^y	0.84 ^y	0.86 ^y	0.92 ^y	0.94 ^y	1.01 ^y
United Kingdom	1.72	1.74 ^c	1.69 ^c	1.69	1.62 ^c	1.66	1.70 ^{c,p}
United States	2.62 ^j	2.82 ^j	2.74 ^j	2.76 ^j	2.70 ^j	2.74 ^{j,p}	..
EU28 (OECD estimates)	1.68 ^b	1.84 ^b	1.84 ^b	1.88 ^b	1.92 ^b	1.93 ^b	1.94 ^b
OECD-Total	2.14^b	2.34^b	2.30^b	2.33^b	2.34^b	2.37^b	2.37^b
Argentina	0.37	0.48	0.49	0.52	0.58	0.58	..
China	0.90 ^{a,y}	1.68 ^{a,y}	1.73 ^y	1.79 ^y	1.93 ^y	2.01 ^y	2.05 ^y
Romania	0.36	0.46	0.45	0.49 ^a	0.48	0.39	0.38
Russian Federation	1.05 ^y	1.25 ^y	1.13 ^y	1.09 ^y	1.13 ^y	1.13 ^y	1.19 ^y
Singapore	1.82	2.16	2.01	2.15	2.00	2.00	..
South Africa	..	0.84	0.74	0.73	0.73
Chinese Taipei	1.91 ^d	2.84	2.80	2.90	2.95	3.01	3.01

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 3. Gross domestic expenditure on R&D (GERD) at 2010 prices and PPPs

Million 2010 USD

	2000	2009	2010	2011	2012	2013	2014
Australia	10 221.4	..	20 572.2 ^c	20 679.3 ^c	..	21 592.4 ^c	..
Austria	5 701.3 ^c	8 983.8	9 592.5 ^c	9 659.4	10 472.8 ^c	10 793.2	10 910.8 ^{c,p}
Belgium	7 014.6	8 269.3	8 772.0	9 384.8	10 303.2	10 597.0	10 894.8 ^c
Canada	21 128.5	25 352.7	25 048.2	25 241.0	25 548.3 ^a	24 633.4	24 087.2 ^p
Chile	..	1 036.2 ^a	1 027.8	1 161.6	1 264.3	1 412.8	1 396.0 ^p
Czech Republic	2 315.5	3 595.6	3 799.0	4 510.3	5 129.7	5 442.1	5 805.0 ^p
Denmark	..	7 009.6	6 816.5	6 963.7	7 039.8	7 154.5	7 231.2 ^{c,p}
Estonia	122.0	382.8	444.6	697.6	672.6	554.0	476.2 ^p
Finland	5 636.8	7 481.5	7 658.3	7 671.5	7 106.3	6 774.6	6 495.5
France	43 119.4 ^a	50 564.9	50 765.0 ^a	52 190.9	53 203.4	53 894.1	54 296.8 ^p
Germany	70 876.0	84 835.7	87 882.6	93 854.6	96 885.8	95 644.8	97 712.8 ^{c,p}
Greece	..	2 133.1 ^c	1 928.6 ^c	1 968.0	1 899.3	2 135.4	2 207.6 ^p
Hungary	1 399.2 ^d	2 440.1	2 474.3	2 626.4	2 742.1	3 073.1	3 125.3
Iceland	244.5 ^c	338.5	..	312.5 ^{a,l}	..	246.6 ^a	253.5
Ireland	1 592.2 ^c	3 171.6 ^c	3 168.6 ^c	3 101.0 ^c	3 168.4 ^c	3 157.1 ^c	3 284.3 ^c
Israel ¹	6 298.8 ^{a,d}	8 605.0 ^d	8 658.7 ^d	9 281.9 ^d	9 829.1 ^d	10 049.4 ^d	10 357.5 ^d
Italy	20 059.5	24 714.3	25 168.9	25 039.0	25 560.5	25 827.0	25 341.7 ^p
Japan	120 209.9	138 626.7	140 607.4	145 528.2	146 329.8	154 514.9 ^a	159 219.7
Korea	21 290.7 ^g	46 548.9	52 172.8	58 427.3	64 267.7	68 149.3	72 833.9
Luxembourg	514.7	694.0	655.0	657.7	561.9 ^a	592.2	594.9 ^{c,p}
Mexico	4 786.9	7 095.4	7 865.7	7 652.9	8 079.0 ^{c,p}	9 507.2 ^{c,p}	10 480.3 ^{c,p}
Netherlands	11 799.0	12 364.8	12 831.0	14 393.0 ^a	14 513.2 ^a	14 579.0	14 838.2 ^p
New Zealand	..	1 677.0	..	1 720.5	..	1 690.9	..
Norway	..	4 816.3	4 747.1	4 895.9	5 049.4	5 195.5	5 376.8 ^p
Poland	3 477.8	5 102.3	5 726.5	6 223.5	7 465.2	7 471.5	8 338.4
Portugal	1 908.7 ^c	4 416.3	4 365.9	4 074.3	3 697.9	3 519.9	3 441.4 ^p
Slovak Republic	525.3	597.2	816.7	903.9	1 115.2	1 158.1	1 271.7
Slovenia	590.1	1 014.7	1 163.7	1 379.6 ^a	1 428.4	1 426.7	1 347.4 ^p
Spain	10 714.2	20 373.4	20 350.3	19 780.7	18 666.2	18 034.2	17 707.2 ^p
Sweden	..	12 745.3	12 594.1 ^c	13 062.6	13 154.1 ^c	13 417.6 ^m	13 119.1 ^p
Switzerland	7 777.1	..	..	..	12 273.4	..	..
Turkey	3 831.2	9 092.2	9 859.3	10 928.9	11 972.1	12 782.8	14 023.5
United Kingdom	33 144.5	38 609.1 ^c	38 165.6 ^c	38 825.1	37 682.6 ^c	39 506.4	41 556.7 ^{c,p}
United States	333 146.1 ^j	411 368.6 ⁱ	410 093.0 ⁱ	420 072.1 ^j	419 528.8 ^j	432 583.2 ^{j,p}	..
EU28 (OECD estimates)	240 940.1 ^b	303 269.4 ^b	308 831.3 ^b	320 956.1 ^b	326 608.3 ^b	328 740.0 ^b	334 255.9 ^b
OECD-Total	772 449.5^b	985 348.5^b	999 136.3^b	1 034 599.5^b	1 050 127.9^b	1 079 736.5^b	1 102 036.6^b
Argentina	1 958.6	3 442.3	3 837.9	4 358.7	4 939.0	5 129.9	..
China	41 090.5 ^a	187 533.6 ^a	213 460.1	242 801.4	281 108.1	316 303.2	344 678.5 ^b
Romania	833.5	1 564.9	1 516.6	1 672.0 ^a	1 674.4	1 382.0	1 408.4
Russian Federation	19 202.4	35 077.8	33 093.5	33 298.4	35 535.2	36 241.3	38 215.7
Singapore	3 715.6	6 718.6	7 218.1	8 190.1	7 874.7	8 228.7	..
South Africa	..	4 878.0	4 433.3	4 558.1	4 643.2
Chinese Taipei	11 351.1 ^d	22 928.5	25 060.8	26 867.9	27 953.8	29 110.2	30 202.3

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 4. Gross domestic expenditure on R&D (GERD) per capita at current prices and PPPs

USD

	2000	2009	2010	2011	2012	2013	2014
Australia	416.5	..	929.0 ^c	932.1 ^c	..	991.9 ^c	..
Austria	558.7 ^c	1 061.9	1 147.3 ^c	1 181.0	1 323.9 ^c	1 405.9	1 424.2 ^{c,p}
Belgium	543.9	747.5	806.0	886.2	997.3	1 053.5	1 077.6 ^c
Canada	545.7	744.8	736.6	747.6	756.2 ^a	748.2	726.3 ^p
Chile	..	56.9 ^a	60.1	71.4	77.7	83.4	83.4 ^p
Czech Republic	181.5	348.8	361.2	446.2	514.4	573.9	622.9 ^p
Denmark	..	1 215.8	1 228.9	1 284.9	1 327.9	1 397.0	1 403.7 ^{c,p}
Estonia	58.1	281.7	333.4	551.6	547.0	465.1	402.7 ^p
Finland	859.0	1 407.1	1 427.9	1 464.7	1 382.7	1 346.1	1 290.7
France	541.6 ^a	769.3	781.3 ^a	818.3	835.9	880.2	887.9 ^p
Germany	642.8	1 028.7	1 094.6	1 199.4	1 252.0	1 271.9	1 318.6 ^{c,p}
Greece	..	191.7 ^c	173.4 ^c	178.9	181.7	217.4	222.9 ^p
Hungary	95.7 ^d	237.7	247.4	270.4	288.4	335.9	343.5
Iceland	770.1 ^c	1 058.2	..	986.9 ^{a,l}	..	800.1 ^a	831.8
Ireland	321.4 ^c	675.4 ^c	694.9 ^c	700.0 ^c	719.7 ^c	730.6 ^c	750.4 ^c
Israel ¹	977.6 ^{a,d}	1 136.2 ^d	1 136.2 ^d	1 226.8 ^d	1 321.4 ^d	1 365.3 ^d	1 385.3 ^d
Italy	267.9	413.6	420.7	429.1	450.2	463.8	456.4 ^p
Japan	778.7	1 069.7	1 098.1	1 160.8	1 194.2	1 275.0 ^a	1 313.3
Korea	394.3 ^g	935.0	1 055.9	1 172.8	1 297.1	1 355.1	1 433.2
Luxembourg	886.2	1 372.3	1 290.6	1 359.0	1 168.5 ^a	1 244.0	1 232.4 ^{c,p}
Mexico	33.3	62.1	68.8	69.7	73.2 ^{c,p}	84.9 ^{c,p}	97.6 ^{c,p}
Netherlands	569.4	748.3	772.4	882.8 ^a	901.0 ^a	939.2	952.0 ^p
New Zealand	..	383.3	..	402.2	..	426.6	..
Norway	..	968.2	971.0	1 021.1	1 059.5	1 104.0	1 120.3 ^p
Poland	68.1	127.5	148.7	166.0	205.4	210.7	234.7
Portugal	128.7 ^c	414.0	412.9	392.4	373.7	370.5	369.6 ^p
Slovak Republic	71.2	109.4	150.4	167.4	210.9	226.8	251.0
Slovenia	242.4	499.1	568.0	691.0 ^a	734.8	757.8	725.6 ^p
Spain	192.1	443.2	437.1	431.1	414.0	414.6	411.1 ^p
Sweden	..	1 368.0	1 342.9 ^c	1 420.2	1 458.0 ^c	1 489.9 ^m	1 431.8 ^p
Switzerland	795.6	..	..	..	1 697.1	..	..
Turkey	44.0	123.0	135.1	152.1	170.0	181.0	197.5
United Kingdom	473.2	633.2 ^c	608.1 ^c	618.4	609.2 ^c	651.2	683.8 ^{c,p}
United States	954.4 ⁱ	1 322.8 ⁱ	1 323.7 ⁱ	1 373.4 ⁱ	1 386.6 ^j	1 442.3 ^{i,p}	..
EU28 (OECD estimates)	381.9 ^b	597.8 ^b	613.2 ^b	650.9 ^b	673.2 ^b	698.2 ^b	714.4 ^b
OECD-Total	541.3^b	791.7^b	807.1^b	848.0^b	871.1^b	908.8^b	930.6^b
Argentina	43.2	85.2	95.1	109.8	126.2	133.5	..
China	26.1 ^a	138.8 ^a	159.2	183.9	215.7	245.1	269.6
Romania	20.9	73.1	74.7	85.5 ^a	86.5	72.6	75.4 ^b
Russian Federation	71.7	242.7	231.7	246.2	264.8	256.3	..
Singapore	745.7	1 329.8	1 421.7	1 612.6	1 539.3	1 608.9	..
South Africa	..	96.3	87.3	90.2	92.1
Chinese Taipei	412.2 ^d	979.7	1 082.0	1 180.7	1 246.1	1 315.6	1 383.9

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

**Table 5. Estimated civil GERD (Gross domestic expenditure on R&D)
as a percentage of GDP**

Percentage

	2000	2009	2010	2011	2012	2013	2014
Australia	1.42	..	..	..	..	..	..
Austria	..	2.60	..	2.67	..	2.96	..
Belgium	1.92	..	..	..	..	..	..
Canada	..	..	..	..	..	..	..
Chile	..	0.35 ^{a,y}	0.33 ^y	0.35 ^y	0.36 ^y	0.39 ^y	0.38 ^{p,y}
Czech Republic	1.06	1.29	1.33	1.55	1.78	1.90	..
Denmark	..	..	..	..	..	..	..
Estonia	0.60	1.39	1.58	.. ^x	2.11	1.71	.. ^x
Finland	3.22	3.73	3.71	3.62	3.40	3.28	..
France	1.91 ^a	2.07	2.08 ^a	2.12	2.16	2.17	..
Germany	2.34 ^c	2.69	2.68	2.77	2.85	2.80	..
Greece	..	..	..	0.67 ^b	0.70 ^b	0.81 ^b	0.83 ^{b,p}
Hungary	0.79	..	..	..	..	..	..
Iceland	2.60 ^c	2.66	..	2.49 ^{a,l}	..	1.87 ^a	..
Ireland	1.09 ^c	1.61 ^c	1.61 ^c	1.53 ^c	1.56 ^c	1.54 ^c	..
Israel ¹	3.93 ^a	4.12	3.93	4.01	4.13	4.09	4.11
Italy	1.00	1.22 ^b	1.22 ^b	1.21 ^b	1.27 ^b	1.30 ^b	1.29 ^{b,p}
Japan	2.98 ^{b,y}	3.33 ^{b,y}	3.22 ^{b,y}	3.36 ^{b,y}	3.32 ^{b,y}	3.44 ^{a,b,y}	3.55 ^{b,y}
Korea	2.06 ^g	3.15 ^b	3.32 ^b	3.59 ^b	3.85 ^b	3.97 ^b	4.13 ^b
Luxembourg	1.57	1.71	1.53	1.50	1.29 ^a	1.30	..
Mexico	..	..	..	..	..	..	..
Netherlands	..	..	..	..	..	..	..
New Zealand	..	1.25	..	1.23	..	1.15	..
Norway	..	..	..	..	..	..	..
Poland	..	..	..	..	..	..	..
Portugal	0.72 ^c	1.58	1.53	1.45	1.37	1.32	..
Slovak Republic	0.61	0.46	0.61	0.66	0.80	0.82	0.88
Slovenia	..	1.80	2.05	..	..	..	..
Spain	..	1.31	1.30	1.28	1.25	1.23	..
Sweden	..	3.32	..	3.15	..	3.18 ^m	..
Switzerland	2.31	..	..	..	2.93	..	..
Turkey	..	..	..	..	..	..	..
United Kingdom	1.47	1.59 ^c	1.57 ^c	1.56	1.52 ^c	1.55	..
United States	2.27 ⁱ	..	..	..	..	..	..
EU28 (OECD estimates)	1.60 ^b	1.79 ^b	1.80 ^b	1.84 ^b	1.88 ^b	1.89 ^b	1.90 ^b
OECD-Total	1.97^b	2.16^b	2.13^b	2.18^b	2.19^b	2.24^b	2.24^b
Argentina	0.36	0.48	0.49	0.51	0.58	0.58	..
China	..	..	..	..	..	..	..
Romania	0.36	0.45	0.45	0.49 ^a	0.48	0.38	..
Russian Federation	0.80 ^y	..	..	..	..	..	..
Singapore
South Africa	..	0.78	0.69	0.70	0.69
Chinese Taipei	1.91	2.78	2.74	2.84	2.92	2.98	2.99

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, *Main Science and Technology Indicators Database*, January 2016.

Table 6. Basic research expenditure as a percentage of GDP

Percentage

	2000	2009	2010	2011	2012	2013	2014
Australia	0.38 ^k	..	..	..	..	..	..
Austria	..	0.49 ^{k,m}	..	0.51 ^{k,m}	..	0.56 ^{k,m}	..
Belgium	..	..	..	..	..	0.48 ^k	..
Canada	..	..	..	..	..	..	..
Chile	..	0.06 ^{m,y}	0.06 ^{m,y}	0.08 ^y	0.09 ^y	0.11 ^y	0.12 ^{p,y}
Czech Republic	0.26 ^{c,k}	0.38	0.40 ^k	0.45 ^k	0.54 ^k	0.63 ^k	..
Denmark	..	0.48	0.53 ^c	0.53	0.52 ^c	0.55	..
Estonia	0.22	0.34	0.37	0.34	0.34	0.37	..
Finland	..	..	..	..	..	..	..
France	0.49 ^{a,k}	0.58 ^k	0.55 ^{a,k}	0.53 ^k	0.54 ^k	0.54 ^k	..
Germany	..	..	..	..	..	..	..
Greece	..	..	..	0.19	..	0.28 ^k	..
Hungary	0.19	0.23	0.22	0.22	0.21	0.23	..
Iceland	..	0.40	..	0.62 ^{a,l}	..	0.65 ^a	..
Ireland	..	0.33 ^{c,k}	0.31 ^{c,k}	0.26 ^{c,k}	..	0.28 ^{c,k}	..
Israel ¹	0.58 ^{a,d}	0.41 ^{a,c,d}	0.40 ^{c,d}	0.40 ^{c,d}	0.40 ^{c,d}	0.39 ^{c,d}	..
Italy	..	0.33 ^k	0.31 ^k	0.29 ^k	0.32 ^k	0.33 ^k	..
Japan	0.37 ^{k,y}	0.42 ^{k,y}	0.39 ^{k,y}	0.41 ^{k,y}	0.42 ^{k,y}	0.44 ^{k,y}	0.44 ^{k,y}
Korea	0.27 ^{g,k}	0.59 ^k	0.63 ^k	0.68 ^k	0.74 ^k	0.75 ^k	0.76 ^k
Luxembourg	..	..	..	..	..	..	..
Mexico	0.10	0.11 ^k	..	..	..	..	..
Netherlands	..	..	..	0.57 ^{a,k}	0.54 ^{a,k}	0.56 ^k	..
New Zealand	..	0.34 ^k	..	0.32 ^k	..	0.29 ^k	..
Norway	..	0.31	..	0.29	..	0.29	..
Poland	0.21	0.20	0.21	0.20	0.23	0.23	..
Portugal	0.16 ^c	0.30	0.29	0.27	0.27	0.28	..
Slovak Republic	0.15	0.19	0.23	0.25	0.30	0.31	0.32
Slovenia	0.30	0.23	0.24	0.28 ^a	0.30	0.31	..
Spain	0.15 ^c	0.26	0.26	0.27	0.27	0.27	..
Sweden	..	..	..	..	..	..	..
Switzerland	0.65 ^k	..	..	..	0.90 ^k	..	..
Turkey	..	..	..	..	..	..	..
United Kingdom	..	0.19 ^c	0.18 ^c	0.16 ^c	0.17 ^c	0.18 ^c	..
United States	0.42	0.51	0.50	0.47	0.45	0.48 ^p	..
EU28 (OECD estimates)	..	..	..	..	..	..	..
OECD-Total	..	..	..	..	..	..	..
Argentina	0.10 ^k	0.14 ^k	0.16 ^k	0.16 ^k	0.20 ^k	0.20 ^k	..
China	0.05 ^{a,k,y}	0.08 ^{a,k,y}	0.08 ^{k,y}	0.09 ^{k,y}	0.09 ^{k,y}	0.09 ^{k,y}	0.10 ^{k,y}
Romania	0.06	0.17	0.17	0.17 ^a	0.16	0.12	..
Russian Federation	0.14 ^y	0.25 ^y	0.21 ^y	0.19 ^y	0.17 ^y	0.17 ^y	0.18 ^y
Singapore	0.21 ^k	0.44 ^k	0.42 ^k	0.41 ^k	0.39 ^k	0.41 ^k	..
South Africa	..	0.19 ^k	0.18 ^k	0.18 ^k	0.18 ^k
Chinese Taipei	0.20 ^{d,k}	0.29 ^k	0.28 ^k	0.28 ^k	0.28 ^k	0.28 ^k	0.27 ^k

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Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 7. Total researchers in full-time equivalent

FTE

	2000	2009	2010	2011	2012	2013	2014
Australia	66 001	..	100 414 ^b	..	..	..	..
Austria	..	34 664	36 581 ^c	37 114	39 346 ^c	40 426	41 005 ^{c,p}
Belgium	30 540	38 225	40 832	42 686	45 597	46 355	46 880 ^c
Canada	107 900	150 220	158 660	165 100	161 590	159 190	..
Chile	..	4 859 ^m	5 440 ^m	6 078	6 798	5 893	7 602 ^p
Czech Republic	13 852	28 759	29 228	30 682	33 217	34 271	36 040 ^p
Denmark	..	36 789	37 435	39 181	40 080	40 316	40 647 ^c
Estonia	2 666	4 314	4 077	4 511	4 582	4 407	4 305 ^p
Finland	34 847 ^u	40 849	41 425	40 003 ^a	40 468	39 196	38 281
France	172 070 ^a	234 366 ^d	243 533 ^a	249 247	258 913	266 222	269 377 ^p
Germany	257 874 ^c	317 307	327 996 ^c	338 689	352 419	354 463	359 640 ^{c,p}
Greece	..	..	..	24 674 ^a	24 800	29 228	29 694 ^p
Hungary	14 406 ^d	20 064	21 342	23 019	23 837	25 038	26 213
Iceland	..	2 505	..	2 258 ^a	..	1 950 ^a	..
Ireland	8 516 ^c	14 189	14 176 ^c	15 269	15 973 ^c	16 844	17 448 ^c
Israel ¹	..	..	..	55 184 ^d	63 521 ^{c,d}	..	..
Italy	66 110	101 840	103 424	106 151	110 695	116 163	119 977 ^p
Japan	647 572	655 530	656 032	656 651	646 347	660 489 ^a	682 935
Korea	108 370 ^g	244 077	264 118	288 901	315 589	321 842	345 463
Luxembourg	1 646	2 396	2 613	2 831	2 310 ^a	2 504	2 548 ^{c,p}
Mexico	..	42 973	36 990	38 823	..	..	..
Netherlands	42 194	46 958	53 703	61 335 ^a	73 235 ^a	76 670	75 536 ^p
New Zealand	..	16 100	..	16 300	..	17 900	..
Norway	..	26 273	26 451	27 228	27 841	28 312	29 362 ^p
Poland	55 174	61 105	64 511	64 133	67 001	71 472	78 677 ^p
Portugal	16 738 ^c	39 834	41 523	44 056	42 498	37 813 ^a	38 487 ^p
Slovak Republic	9 955	13 290	15 183	15 326	15 271	14 727	14 742
Slovenia	4 336	7 446	7 703	8 774 ^a	8 884	8 707	8 574 ^p
Spain	76 670	133 803	134 653	130 235	126 778	123 225	122 169 ^p
Sweden	..	47 308 ^m	49 312 ^{c,m}	48 702 ^m	49 280 ^{c,m}	64 194 ^{a,m}	66 643 ^{m,p}
Switzerland	26 105	..	..	..	35 950	..	..
Turkey	23 083	57 759	64 341	72 109	82 122	89 075	89 657
United Kingdom	170 554 ^b	256 124 ^c	256 585 ^c	251 358	256 156 ^c	267 699	273 560 ^{c,p}
United States	983 208 ^b	1 250 984 ^b	1 198 280 ^b	1 252 948 ^b	1 265 064 ^b	..	..
EU28 (OECD estimates)	1 117 809 ^b	1 553 691 ^b	1 601 122 ^b	1 626 804 ^b	1 680 988 ^b	1 731 240 ^b	1 761 901 ^b
OECD-Total	3 132 785^b	4 130 057^b	4 159 902^b	4 300 347^b	4 411 451^b	..	..
Argentina	26 420	43 717	47 580	50 340	51 598	51 686	..
China	695 062 ^{a,t}	1 152 311 ^a	1 210 841	1 318 086	1 404 017	1 484 040	1 524 280
Romania	20 476	19 271	19 780	16 080 ^a	18 016	18 576	18 109
Russian Federation	506 420	442 263	442 071	447 579	443 269	440 581	444 865
Singapore	16 633	30 530	32 031	33 719	34 141	36 025	..
South Africa	..	19 793	18 720	20 115	21 383
Chinese Taipei	55 460 ^{d,m}	119 583	128 347	134 762	140 102	141 159	142 983

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 1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

 Source: OECD, *Main Science and Technology Indicators Database*, January 2016.

Table 8. Total researchers in full-time equivalent per thousand total employment

Per thousand

	2000	2009	2010	2011	2012	2013	2014
Australia	7.3 ^b	..	9.0 ^b	..	..	..	..
Austria	..	8.5	8.9 ^c	8.9	9.3 ^c	9.6	9.6 ^{c,p}
Belgium	7.4	8.6	9.1	9.4	10.0	10.2	10.3 ^c
Canada	7.2	8.8	9.1	9.3	9.1	8.8	..
Chile	..	0.7 ^{b,m}	0.8 ^m	0.8	0.9	0.8	1.0 ^p
Czech Republic	2.9	5.6	5.8	6.1	6.6	6.7	7.1 ^p
Denmark	..	13.0	13.6	14.2	14.6	14.7	14.7 ^c
Estonia	4.6	7.5	7.4	7.7	7.7	7.3	7.1 ^p
Finland	15.2 ^u	16.3	16.7	15.9 ^a	15.9	15.6	15.3
France	6.7 ^a	8.7 ^d	9.1 ^a	9.2	9.5	9.8	9.9 ^p
Germany	6.5 ^c	7.8	8.0 ^c	8.1	8.4	8.4	8.4 ^{c,p}
Greece	..	..	..	5.6 ^a	6.0	7.4	7.5 ^p
Hungary	3.4 ^d	5.0	5.3	5.8	5.9	6.2	6.2
Iceland	..	14.9	..	13.5 ^a	..	11.1 ^a	..
Ireland	5.0 ^c	7.2	7.5 ^c	8.3	8.7 ^c	9.0	9.1 ^c
Israel ¹	..	..	..	15.7 ^d	17.4 ^{c,d}	..	..
Italy	2.9	4.1	4.2	4.3	4.5	4.8	4.9 ^p
Japan	9.9	10.1	10.2	10.2	10.0	10.2 ^a	10.5 ^b
Korea	5.1 ^g	10.4	11.1	11.9	12.8	12.8	13.5
Luxembourg	6.2	6.8	7.3	7.7	6.1 ^a	6.5	6.4 ^{c,p}
Mexico	..	1.0	0.8	0.8	..	..	..
Netherlands	5.1	5.3	6.1	6.9 ^a	8.3 ^a	8.8	8.6 ^p
New Zealand	..	7.5	..	7.4	..	7.9	..
Norway	..	10.1	10.2	10.4	10.4	10.4	10.7 ^p
Poland	3.8	3.9	4.2	4.1	4.3	4.6	5.0 ^p
Portugal	3.3 ^c	8.1	8.5	9.2	9.3	8.5 ^a	8.5 ^{b,p}
Slovak Republic	4.9	6.0	7.0	6.9	6.9	6.7	6.6
Slovenia	4.7	7.6	8.0	9.3 ^a	9.5	9.4	9.2 ^p
Spain	4.6	6.7	6.9	6.8	6.9	6.9	6.8 ^p
Sweden	..	10.6 ^m	11.0 ^{c,m}	10.6 ^m	10.7 ^{c,m}	13.7 ^{a,m}	14.1 ^{m,p}
Switzerland	6.3	..	..	..	7.5	..	..
Turkey	1.2	2.7	2.8	3.0	3.3	3.5	3.5
United Kingdom	6.2 ^b	8.8 ^c	8.8 ^c	8.6	8.6 ^c	8.9	8.9 ^{c,p}
United States	7.1 ^b	8.8 ^b	8.5 ^b	8.8 ^b	8.7 ^b	..	..
EU28 (OECD estimates)	5.2 ^b	6.8 ^b	7.1 ^b	7.2 ^b	7.5 ^b	7.7 ^b	7.8 ^b
OECD-Total	6.1^b	7.5^b	7.5^b	7.7^b	7.8^b	..	..
Argentina	2.0	2.6	2.8	2.9	2.9	2.9	..
China	1.0 ^{a,t}	1.5 ^a	1.6	1.7	1.8	1.9	2.0
Romania	1.9	2.1	2.2	1.8 ^a	2.1	2.2	2.1
Russian Federation	7.8	6.4	6.3	6.3	6.2	6.2	6.2
Singapore	7.7	10.2	10.3	10.4	10.2	10.3	..
South Africa	..	1.4	1.4	1.4	1.5
Chinese Taipei	5.8 ^{d,m}	11.6	12.2	12.6	12.9	12.9	12.9

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 9. Total R&D personnel in full-time equivalent

FTE

	2000	2009	2010	2011	2012	2013	2014
Australia	95 621	..	147 809 ^b	..	..	..	..
Austria	..	56 438	59 923 ^c	61 171	64 550 ^c	66 186	67 135 ^{c,p}
Belgium	53 391	59 756	60 075	62 895	67 005	67 899	68 701 ^c
Canada	167 940	236 760	233 060	239 920	231 230	226 620	..
Chile	..	10 430 ^m	11 491 ^m	13 052	14 631	13 228	15 910 ^p
Czech Republic	24 198	50 961	52 290	55 697	60 329	61 976	64 444 ^p
Denmark	37 693	55 918	56 623	57 585	57 734	58 246	58 745 ^c
Estonia	3 710	5 430	5 277	5 724	5 855	5 858	5 806 ^p
Finland	52 604	56 069	55 897	54 526 ^a	54 047	52 972	52 130
France	327 466 ^a	390 214 ^d	397 756 ^a	402 492	411 780	418 141	422 452 ^p
Germany	484 734 ^c	534 975	548 723	575 099	591 261	588 615	600 700 ^{c,p}
Greece	..	..	..	36 913 ^a	37 361	42 188	43 059 ^p
Hungary	23 534 ^d	29 795	31 480	33 960	35 732	38 163	37 329
Iceland	..	3 397	..	3 244 ^a	..	2 766 ^a	..
Ireland	12 762 ^c	19 705	19 722 ^c	21 591	22 607 ^c	24 129	25 029 ^c
Israel ¹	..	..	..	70 401 ^d	77 143 ^{c,d}	..	..
Italy	150 066	226 527	225 632	228 094	240 179	246 764	246 423 ^p
Japan	896 847	878 418	877 928	869 825	851 132	865 523 ^a	895 285
Korea	138 077 ^g	309 063	335 228	361 374	395 990	401 444	430 868
Luxembourg	3 663	4 711	4 972	5 191	4 743 ^a	4 975	5 061 ^{c,p}
Mexico	..	..	..	..	..	..	..
Netherlands	91 313	87 874	100 544	117 436 ^a	122 215 ^a	123 206	123 096 ^p
New Zealand	..	23 200	..	23 600	..	24 900	..
Norway	..	36 091	36 121	36 950	37 707	38 536	40 363 ^p
Poland	78 925	73 581	81 843	85 219	90 716	93 751	104 425 ^p
Portugal	21 888 ^c	47 097	47 616	49 599	47 554	46 711	47 236 ^p
Slovak Republic	15 221	15 952	18 188	18 112	18 127	17 166	17 594
Slovenia	8 568	12 410	12 940	15 269 ^a	14 974	15 229	14 866 ^p
Spain	120 618	220 777	222 022	215 079	208 831	203 302	199 583 ^p
Sweden	..	77 363 ^m	77 418 ^{c,m}	78 445 ^m	81 272 ^{c,m}	80 957 ^m	83 473 ^{m,p}
Switzerland	52 285	..	..	..	75 476	..	..
Turkey	27 003 ^m	73 521 ^m	81 792 ^m	92 801 ^m	105 122 ^m	112 969 ^m	115 444 ^m
United Kingdom	288 599 ^b	347 486 ^{c,m}	350 766 ^{c,m}	356 258 ^m	356 484 ^{c,m}	377 343 ^m	387 934 ^{c,m,p}
United States	..	..	..	..	..	..	..
EU28 (OECD estimates)	2 000 349 ^b	2 485 628 ^b	2 539 520 ^b	2 612 981 ^b	2 670 304 ^b	2 713 434 ^b	2 755 635 ^b
OECD-Total	..	..	..	..	..	..	..
Argentina	37 515	59 683	65 761	69 693	71 872	73 818	..
China	922 131 ^{a,t}	2 291 252 ^a	2 553 829	2 882 903	3 246 840	3 532 817	3 710 580
Romania	33 892	28 398	26 171	29 749 ^a	31 135	32 507	31 391
Russian Federation	1 007 257	845 942	839 992	839 183	828 401	826 733	829 190
Singapore	19 365	35 896	37 013	38 996	39 459	41 582	..
South Africa	..	30 891	29 486	30 978	35 050
Chinese Taipei	104 568 ^{d,m}	197 417	211 413	222 269	229 167	234 248	240 528

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 1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 10. Total R&D personnel in full-time equivalent per thousand total employment

Per thousand

	2000	2009	2010	2011	2012	2013	2014
Australia	10.6 ^b	..	13.2 ^b	..	..	..	..
Austria	..	13.9	14.6 ^c	14.7	15.3 ^c	15.6	15.7 ^{c,p}
Belgium	13.0	13.4	13.4	13.9	14.7	15.0	15.1 ^c
Canada	11.1	13.9	13.4	13.6	13.0	12.6	..
Chile	..	1.6 ^{b,m}	1.6 ^m	1.7	1.9	1.7	2.0 ^p
Czech Republic	5.0	10.0	10.3	11.0	11.9	12.2	12.6 ^p
Denmark	13.8	19.8	20.5	20.9	21.1	21.2	21.2 ^c
Estonia	6.3	9.4	9.6	9.8	9.9	9.7	9.6 ^p
Finland	22.9	22.4	22.5	21.7 ^a	21.3	21.0	20.9
France	12.8 ^a	14.5 ^d	14.8 ^a	14.8	15.1	15.4	15.5 ^p
Germany	12.1 ^c	13.1	13.4	13.8	14.1	13.9	14.1 ^{c,p}
Greece	..	..	..	8.4 ^a	9.1	10.7	10.9 ^p
Hungary	5.6 ^d	7.4	7.9	8.5	8.9	9.4	8.8
Iceland	..	20.2	..	19.4 ^a	..	15.8 ^a	..
Ireland	7.5 ^c	10.0	10.5 ^c	11.7	12.3 ^c	12.8	13.1 ^c
Israel ¹	..	..	..	20.0 ^d	21.1 ^{c,d}	..	..
Italy	6.5	9.1	9.1	9.2	9.7	10.1	10.1 ^p
Japan	13.6	13.6	13.6	13.5	13.2	13.3 ^a	13.7 ^b
Korea	6.5 ^q	13.1	14.1	14.9	16.0	16.0	16.8
Luxembourg	13.9	13.3	13.8	14.0	12.5 ^a	12.9	12.8 ^{c,p}
Mexico	..	..	..	..	..	..	..
Netherlands	11.1	9.9	11.5	13.3 ^a	13.8 ^a	14.1	14.1 ^p
New Zealand	..	10.8	..	10.7	..	11.0	..
Norway	..	13.9	13.9	14.0	14.0	14.2	14.7 ^p
Poland	5.4	4.7	5.3	5.5	5.9	6.1	6.6 ^p
Portugal	4.3 ^c	9.5	9.8	10.4	10.4	10.5	10.4 ^{b,p}
Slovak Republic	7.5	7.2	8.4	8.2	8.2	7.8	7.9
Slovenia	9.4	12.6	13.4	16.1 ^a	16.0	16.5	16.0 ^p
Spain	7.2	11.0	11.3	11.3	11.4	11.4	11.1 ^p
Sweden	..	17.4 ^m	17.2 ^{c,m}	17.1 ^m	17.6 ^{c,m}	17.3 ^m	17.6 ^{m,p}
Switzerland	12.7	..	..	..	15.8	..	..
Turkey	1.4 ^m	3.5 ^m	3.6 ^m	3.8 ^m	4.2 ^m	4.4 ^m	4.5 ^m
United Kingdom	10.5 ^b	11.9 ^{c,m}	12.0 ^{c,m}	12.1 ^m	12.0 ^{c,m}	12.6 ^m	12.6 ^{c,m,p}
United States	..	..	..	..	..	..	..
EU28 (OECD estimates)	9.4 ^b	10.9 ^b	11.3 ^b	11.6 ^b	11.9 ^b	12.1 ^b	12.2 ^b
OECD-Total	..	..	..	..	..	..	..
Argentina	2.9	3.5	3.9	4.0	4.1	4.1	..
China	1.3 ^{a,t}	3.0 ^a	3.4	3.8	4.2	4.6	4.8
Romania	3.1	3.1	2.9	3.3 ^a	3.6	3.8	3.6
Russian Federation	15.5	12.2	12.0	11.8	11.6	11.6	11.6
Singapore	8.9	12.0	11.9	12.1	11.8	11.9	..
South Africa	..	2.2	2.1	2.2	2.4
Chinese Taipei	11.0 ^{d,m}	19.2	20.1	20.8	21.1	21.4	21.7

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 11. Industry-financed GERD (Gross domestic expenditure on R&D) as a percentage of GDP

As a percentage of GDP

	2000	2009	2010	2011	2012	2013	2014
Australia	0.71	..	..	..	..	..	..
Austria	0.79 ^c	1.23	1.24 ^c	1.24	1.31 ^c	1.45	1.39 ^{c,p}
Belgium	1.20	1.16	1.18	1.30	1.35	1.38	..
Canada	0.84	0.93	0.86	0.88	0.84 ^a	0.77	0.73 ^p
Chile	..	0.10 ^{a,y}	0.08 ^y	0.12 ^y	0.13 ^y	0.13 ^y	0.12 ^{p,y}
Czech Republic	0.57	0.52	0.55	0.59	0.65	0.72	..
Denmark	..	1.91	1.79 ^c	1.81	1.80 ^c	1.77	1.77 ^{c,p}
Estonia	0.15	0.54	0.69	1.27	1.08	0.72	0.53 ^p
Finland	2.28	2.55	2.46	2.44	2.16	2.01	1.70
France	1.09 ^a	1.15	1.16 ^a	1.21	1.23	1.23	..
Germany	1.58 ^c	1.80	1.78	1.83	1.90	1.85	..
Greece	..	0.21 ^c	0.22 ^c	0.22	0.22	0.25	0.25 ^p
Hungary	0.30 ^y	0.53	0.54	0.57	0.60	0.65	0.66
Iceland	..	1.27	..	1.24 ^{a,l}	..	0.73 ^a	..
Ireland	0.71 ^c	0.84 ^c	0.84 ^c	0.75 ^c	0.78 ^c	0.82 ^c	0.81 ^c
Israel ¹	2.07 ^{a,d}	1.55 ^{a,d}	1.42 ^d	1.50 ^d	1.63 ^d	1.49 ^d	..
Italy	..	0.54	0.55	0.55	0.56	0.59	..
Japan	2.17 ^y	2.53 ^y	2.47 ^y	2.59 ^y	2.54 ^y	2.62 ^{a,y}	2.77 ^y
Korea	1.58 ^g	2.34	2.49	2.76	3.01	3.14	3.23
Luxembourg	1.42	1.20	0.66	0.68	0.23 ^a	0.21	..
Mexico	0.10	0.17	0.16	0.16	0.12 ^{c,p}	0.11 ^{c,p}	0.13 ^{c,p}
Netherlands	..	0.76	..	0.97 ^a	1.00 ^a	1.00	1.02 ^p
New Zealand	..	0.49	..	0.50	..	0.47	..
Norway	..	0.75	..	0.72	..	0.71	..
Poland	0.19	0.18	0.18	0.21	0.28	0.33	0.37
Portugal	0.20 ^c	0.69	0.67	0.65	0.63	0.56	..
Slovak Republic	0.35	0.17	0.22	0.23	0.30	0.33	0.29
Slovenia	0.72	1.05	1.20	1.48 ^a	1.60	1.66	1.63 ^p
Spain	0.44	0.59	0.58	0.59	0.59	0.58	..
Sweden	..	2.05	..	1.87	..	2.02 ^m	..
Switzerland	1.61	..	..	..	1.80	..	..
Turkey	0.21 ^y	0.35 ^y	0.38 ^y	0.39 ^y	0.43 ^y	0.46 ^y	0.51 ^y
United Kingdom	0.83	0.78 ^c	0.75 ^c	0.78	0.74 ^c	0.77	0.79 ^{c,p}
United States	1.81 ^j	1.63 ^{a,j}	1.56 ^j	1.62 ^j	1.60 ^j	1.67 ^j	..
EU28 (OECD estimates)	0.93 ^b	0.98 ^b	0.98 ^b	1.02 ^b	1.04 ^b	1.05 ^b	..
OECD-Total	1.37^b	1.38^b	1.35^b	1.40^b	1.40^b	1.44^b	1.44^b
Argentina	0.09 ^c	0.10	0.11	0.12	0.12	0.12	..
China	0.52 ^y	1.20 ^{a,y}	1.24 ^y	1.33 ^y	1.43 ^y	1.50 ^y	1.54 ^y
Romania	0.18	0.16	0.15	0.18 ^a	0.17	0.12	0.13
Russian Federation	0.35 ^y	0.33 ^y	0.29 ^y	0.30 ^y	0.31 ^y	0.32 ^y	0.32 ^y
Singapore	1.00	1.13	1.07	1.19	1.07	1.05	..
South Africa	..	0.36	0.30	0.29	0.28
Chinese Taipei	1.24	1.98	2.00	2.10	2.19	2.27	2.32

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Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 12. Government-financed GERD (Gross domestic expenditure on R&D) as a percentage of GDP

Percentage

	2000	2009	2010	2011	2012	2013	2014
Australia	0.67	..	..	..	..	..	..
Austria	0.72 ^c	0.91	1.05 ^{c,o}	0.96	1.11 ^{c,o}	1.00	1.13 ^{c,o,p}
Belgium	0.44	0.50	0.52	0.50	0.68	0.69	..
Canada	0.55 ^c	0.66 ^c	0.65 ^c	0.61 ^c	0.61 ^{a,c}	0.58 ^c	0.56 ^{c,p}
Chile	..	0.14 ^{a,y}	0.13 ^y	0.12 ^y	0.13 ^y	0.15 ^y	0.17 ^{p,y}
Czech Republic	0.50	0.62	0.60	0.65	0.66	0.66	0.66 ^p
Denmark	..	0.80	0.83 ^c	0.84	0.88 ^c	0.93	0.93 ^{c,p}
Estonia	0.36	0.68	0.70	0.76	0.81	0.81	0.71 ^p
Finland	0.85	0.90	0.96	0.91 ^a	0.91	0.86	0.87
France	0.81 ^a	0.86	0.81 ^a	0.77	0.79	0.79	..
Germany	0.75 ^c	0.81	0.82	0.83	0.84	0.82	..
Greece	..	0.34 ^c	0.29 ^c	0.33	0.35	0.42	0.44 ^p
Hungary	0.39 ^{d,v}	0.48	0.45	0.46	0.47	0.50	0.46
Iceland	..	1.07	..	1.00 ^{a,l}	..	0.65 ^a	..
Ireland	0.25 ^c	0.48 ^c	0.47 ^c	0.45 ^c	0.43 ^c	0.40 ^c	0.39 ^c
Israel ¹	0.86 ^{a,d}	0.53 ^d	0.56 ^d	0.52 ^d	0.53 ^d	0.52 ^d	..
Italy	..	0.51	0.51	0.51	0.54	0.54	..
Japan	0.59 ^{b,y}	0.59 ^{b,y}	0.56 ^{b,y}	0.56 ^{b,y}	0.56 ^{b,y}	0.60 ^{a,b,y}	0.57 ^{b,y}
Korea	0.52 ^g	0.90	0.93	0.93	0.96	0.95	0.99
Luxembourg	0.12	0.41	0.54	0.50	0.58 ^a	0.63	..
Mexico	0.21	0.23	0.28	0.25	0.30 ^{c,p}	0.38 ^{c,p}	0.40 ^{c,p}
Netherlands	..	0.69	..	0.65 ^a	0.63 ^a	0.65	0.65 ^p
New Zealand	..	0.56	..	0.52	..	0.47	..
Norway	..	0.81	..	0.76	..	0.76	..
Poland	0.43	0.40	0.44	0.42	0.45	0.41	0.43
Portugal	0.47 ^c	0.72	0.69	0.61	0.59	0.62	..
Slovak Republic	0.27 ^m	0.24 ^m	0.31 ^m	0.33 ^m	0.34 ^m	0.32 ^m	0.37 ^m
Slovenia	0.54	0.65	0.73	0.76 ^a	0.74	0.70	0.52 ^p
Spain	0.34	0.64	0.63	0.59	0.55	0.53	..
Sweden	..	0.93	..	0.89	..	0.93 ^m	..
Switzerland	0.54	..	..	..	0.75	..	..
Turkey	0.24 ^y	0.29 ^y	0.26 ^y	0.25 ^y	0.26 ^y	0.25 ^y	0.26 ^y
United Kingdom	0.52	0.57	0.55	0.51	0.47 ^c	0.48	0.49 ^{c,p}
United States	0.69 ^j	0.92 ⁱ	0.89 ⁱ	0.86 ⁱ	0.80 ^j	0.76 ^{i,p}	..
EU28 (OECD estimates)	0.60 ^b	0.65 ^b	0.65 ^b	0.64 ^b	0.64 ^b	0.64 ^b	..
OECD-Total	0.61^b	0.73^b	0.72^b	0.69^b	0.68^b	0.67^b	..
Argentina	0.26 ^c	0.36	0.37	0.37	0.43	0.44	..
China	0.30 ^y	0.39 ^{a,y}	0.41 ^y	0.39 ^y	0.42 ^y	0.43 ^y	0.41 ^y
Romania	0.15	0.25	0.25	0.24 ^a	0.24	0.20	0.19
Russian Federation	0.58 ^y	0.83 ^y	0.80 ^y	0.73 ^y	0.76 ^y	0.77 ^y	0.82 ^y
Singapore	0.73	0.87	0.81	0.82	0.77	0.79	..
South Africa	..	0.37	0.33	0.32	0.33
Chinese Taipei	0.64 ^d	0.82	0.77	0.76	0.73	0.70	0.65

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 13. Percentage of Gross domestic expenditure on R&D (GERD) financed by industry

Percentage

	2000	2009	2010	2011	2012	2013	2014
Australia	47.9	..	..	..	..	..	..
Austria	41.8 ^c	47.1	45.1 ^c	46.2	45.5 ^c	48.7	46.6 ^{c,p}
Belgium	62.4	58.7	57.6	60.2	57.0	57.0	..
Canada	44.9	48.5	47.0	49.0	47.1 ^a	45.7	45.4 ^p
Chile	..	27.0 ^a	25.4	33.9	34.9	34.2	32.0 ^p
Czech Republic	51.2	39.8	40.8	37.7	36.4	37.6	..
Denmark	..	62.1	61.1 ^c	61.2	59.9 ^c	57.9	57.9 ^{c,p}
Estonia	24.2	38.5	43.6	55.0	51.3	42.1	37.0 ^p
Finland	70.2	68.1	66.1	67.0	63.1	60.8	53.5
France	52.5 ^a	52.3	53.5 ^a	55.0	55.3	55.0	..
Germany	66.0 ^c	66.1	65.6	65.6	66.1	65.4	..
Greece	..	33.5 ^c	36.5 ^c	32.7	31.0	30.3	30.0 ^p
Hungary	37.8 ^{d,v}	46.4	47.4	47.5	46.9	46.8	48.3
Iceland	..	47.8	..	49.8 ^a	..	39.2 ^a	..
Ireland	65.8 ^c	52.1 ^c	52.2 ^c	48.9 ^c	50.2 ^c	53.6 ^c	53.6 ^c
Israel ¹	52.8 ^{a,d}	37.5 ^{a,d}	36.2 ^d	37.3 ^d	39.4 ^d	36.5 ^d	..
Italy	..	44.2	44.7	45.1	44.3	45.2	..
Japan	72.4	75.3	75.9	76.5	76.1	75.5 ^a	77.3
Korea	72.4 ^g	71.1	71.8	73.7	74.7	75.7	75.3
Luxembourg	90.7	70.3	43.5	45.3	18.1 ^a	16.5	..
Mexico	29.5	39.1	36.2	36.8	27.1 ^{c,p}	22.2 ^{c,p}	23.8 ^{c,p}
Netherlands	..	45.1	..	51.1 ^a	51.6 ^a	51.1	51.5 ^p
New Zealand	..	39.0	..	40.0	..	39.8	..
Norway	..	43.6	..	44.2	..	43.1	..
Poland	29.5	27.1	24.4	28.1	32.3	37.3	39.0
Portugal	27.0 ^c	43.9	43.9	44.7	46.0	42.3	..
Slovak Republic	54.4	35.1	35.1	33.9	37.7	40.2	32.2
Slovenia	53.3	58.0	58.4	61.2 ^a	62.2	63.8	68.4 ^p
Spain	49.7	43.4	43.0	44.3	45.6	46.3	..
Sweden	..	59.5	..	57.6	..	61.0	..
Switzerland	69.1	..	..	..	60.8	..	..
Turkey	42.9	41.0	45.1	45.8	46.8	48.9	50.9
United Kingdom	48.3	44.5 ^c	44.0 ^c	45.9	45.6 ^c	46.2	46.5 ^{c,p}
United States	69.0 ⁱ	57.9 ^{a,i}	56.9 ⁱ	58.5 ⁱ	59.3 ⁱ	60.9 ^{i,p}	..
EU28 (OECD estimates)	55.3 ^b	53.4 ^b	53.2 ^b	54.3 ^b	54.3 ^b	54.3 ^b	..
OECD-Total	64.1^b	58.9^b	58.6^b	59.9^b	60.1^b	60.6^b	60.9^b
Argentina	23.3 ^c	21.4	22.3	23.9	21.3	20.1	..
China	57.6	71.7 ^a	71.7	73.9	74.0	74.6	75.4
Romania	49.0	34.8	32.3	37.4 ^a	34.4	31.0	32.9
Russian Federation	32.9	26.6	25.5	27.7	27.2	28.2	27.1
Singapore	55.0	52.1	53.1	55.3	53.4	52.7	..
South Africa	..	42.5	40.1	39.0	38.3
Chinese Taipei	65.0 ^d	69.8	71.3	72.6	74.1	75.5	77.2

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 14. Percentage of Gross domestic expenditure on R&D (GERD) financed by government

Percentage

	2000	2009	2010	2011	2012	2013	2014
Australia	45.5	..	..	..	..	..	..
Austria	38.0 ^c	34.9	38.3 ^{c,o}	35.8	38.3 ^{c,o}	33.6	37.7 ^{c,o,p}
Belgium	22.9	25.3	25.4	23.4	28.6	28.5	..
Canada	29.3 ^c	34.6 ^c	35.2 ^c	34.0 ^c	34.3 ^{a,c}	34.6 ^c	34.6 ^{c,p}
Chile	..	38.3 ^a	40.4	33.7	36.0	38.4	44.1 ^p
Czech Republic	44.5	47.8	44.4	41.7	36.8	34.7	32.9 ^p
Denmark	..	26.1	28.2 ^c	28.2	29.2 ^c	30.4	30.4 ^{c,p}
Estonia	59.2	48.8	44.1	32.8	38.3	47.2	49.6 ^p
Finland	26.2	24.0	25.7	25.0 ^a	26.7	26.0	27.5
France	38.7 ^a	38.7	37.1 ^a	35.1	35.4	35.2	..
Germany	31.4 ^c	29.8	30.3	29.8	29.2	29.1	..
Greece	..	54.7 ^c	48.3 ^c	49.2	50.4	52.3	53.1 ^p
Hungary	49.5 ^{d,v}	42.0	39.3	38.1	36.9	35.9	33.5
Iceland	..	40.2	..	40.0 ^a	..	35.0 ^a	..
Ireland	23.4 ^c	29.8 ^c	29.4 ^c	29.4 ^c	27.5 ^c	25.9 ^c	25.9 ^c
Israel ¹	21.8 ^{a,d}	12.8 ^d	14.2 ^d	13.0 ^d	12.8 ^d	12.7 ^d	..
Italy	..	42.1	41.6	41.9	42.5	41.4	..
Japan	19.6 ^b	17.7 ^b	17.2 ^b	16.4 ^b	16.8 ^b	17.3 ^{a,b}	16.0 ^b
Korea	23.9 ^g	27.4	26.7	24.9	23.8	22.8	23.0
Luxembourg	7.7	24.3	35.1	33.5	45.1 ^a	48.4	..
Mexico	63.0	53.2	60.5	59.6	70.6 ^{c,p}	75.5 ^{c,p}	73.6 ^{c,p}
Netherlands	..	40.9	..	33.9 ^a	32.4 ^a	33.3	32.7 ^p
New Zealand	..	44.7	..	41.4	..	39.8	..
Norway	..	46.8	..	46.5	..	45.8	..
Poland	66.5	60.4	60.9	55.8	51.3	47.2	45.2
Portugal	64.8 ^c	45.5	45.1	41.8	43.1	46.4	..
Slovak Republic	42.6 ^m	50.6 ^m	49.6 ^m	49.8 ^m	41.6 ^m	38.9 ^m	41.4 ^m
Slovenia	40.0	35.7	35.3	31.5 ^a	28.7	26.9	21.8 ^p
Spain	38.6	47.1	46.6	44.5	43.1	41.6	..
Sweden	..	27.0	..	27.5	..	28.3	..
Switzerland	23.2	..	..	..	25.4	..	..
Turkey	50.6	34.0	30.8	29.2	28.2	26.6	26.3
United Kingdom	30.2	32.6 ^c	32.3 ^c	30.5	28.7 ^c	29.1	28.8 ^{c,p}
United States	26.2 ⁱ	32.7 ⁱ	32.6 ⁱ	31.1 ⁱ	29.8 ⁱ	27.7 ^{i,p}	..
EU28 (OECD estimates)	35.5 ^b	35.6 ^b	35.4 ^b	33.8 ^b	33.5 ^b	33.1 ^b	..
OECD-Total	28.5^b	31.2^b	31.1^b	29.7^b	29.2^b	28.3^b	..
Argentina	70.7 ^c	75.4	74.7	71.6	74.0	75.5	..
China	33.4	23.4 ^a	24.0	21.7	21.6	21.1	20.3
Romania	40.8	54.9	54.4	49.1 ^a	49.9	52.3	48.5
Russian Federation	54.8	66.5	70.3	67.1	67.8	67.6	69.2
Singapore	40.3	40.4	40.2	38.1	38.5	39.3	..
South Africa	..	44.4	44.5	43.1	45.4
Chinese Taipei	33.4 ^d	28.9	27.4	26.2	24.6	23.3	21.7

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

**Table 15. Percentage of Gross domestic expenditure on R&D (GERD)
financed by other national sources**

Percentage

	2000	2009	2010	2011	2012	2013	2014
Australia	3.1	..	..	..	..	..	..
Austria	0.3 ^c	1.2	0.5 ^c	1.1	0.4 ^c	1.1	0.4 ^{c,p}
Belgium	2.4	3.9	3.7	3.5	1.4	1.4	..
Canada	8.4 ^c	9.9 ^c	11.3 ^c	11.1 ^c	13.0 ^{a,c}	13.8 ^c	14.0 ^{c,p}
Chile	..	15.7 ^a	14.4	11.2	11.6	12.5	10.2 ^p
Czech Republic	1.1	1.2	0.9	0.9	0.9	0.5	0.7 ^p
Denmark	..	3.1	3.5 ^c	3.6	3.8 ^c	4.3	4.3 ^{c,p}
Estonia	3.9	1.4	0.8	0.4	0.4	0.4	1.0 ^p
Finland	0.9	1.3	1.3	1.4	1.4	1.6	1.7
France	1.6 ^a	2.0	1.8 ^a	2.1	1.7	1.7	..
Germany	0.4 ^c	0.3	0.2	0.3	0.4	0.3	..
Greece	..	3.1 ^c	3.4 ^c	3.3	2.9	3.5	3.7 ^p
Hungary	0.3 ^{d,v}	0.7	0.9	1.0	0.9	0.8	0.7
Iceland	..	0.6	..	1.9 ^a	..	5.8 ^a	..
Ireland	1.9 ^c	1.6 ^c	1.4 ^c	1.3 ^c	1.3 ^c	1.2 ^c	1.2 ^c
Israel ¹	3.1 ^{a,d}	2.9 ^d	2.3 ^d	2.0 ^d	2.3 ^d	2.0 ^d	..
Italy	..	4.3	4.0	3.9	3.7	3.7	..
Japan	7.6 ^b	6.6 ^b	6.4 ^b	6.6 ^b	6.6 ^b	6.7 ^{a,b}	6.3 ^b
Korea	3.6 ^g	1.3	1.2	1.2	1.1	1.2	1.0
Luxembourg	..	0.1	0.8	1.7	2.3 ^a	2.8	..
Mexico	6.5	6.0	2.7	2.9	1.9 ^{c,p}	1.9 ^{c,p}	2.2 ^{c,p}
Netherlands	..	3.1	..	3.6 ^a	3.5 ^a	3.4	3.3 ^p
New Zealand	..	11.1	..	12.2	..	13.2	..
Norway	..	1.4	..	1.5	..	1.6	..
Poland	2.1	7.0	2.8	2.7	3.0	2.3	2.4
Portugal	3.0 ^c	6.6	7.8	7.5	5.7	5.2	..
Slovak Republic	0.7	1.6	0.7	2.2	2.1	2.9	2.7
Slovenia	0.4	0.3	0.3	0.2 ^a	0.5	0.4	0.6 ^p
Spain	6.8	4.1	4.6	4.5	4.6	4.7	..
Sweden	..	3.2	..	3.9	..	4.1	..
Switzerland	3.4	..	..	..	1.7	..	..
Turkey	5.2	24.0	23.2	24.2	24.4	23.7	21.8
United Kingdom	5.5	6.3 ^c	6.0 ^c	5.9	5.9 ^c	6.0	5.8 ^{c,p}
United States	4.7 ⁱ	6.6 ^j	6.7 ^j	6.6 ^j	6.8 ^j	6.9 ^{j,p}	..
EU28 (OECD estimates)	2.1 ^b	2.7 ^b	2.5 ^b	2.5 ^b	2.4 ^b	2.4 ^b	..
OECD-Total	4.4^b	5.2^b	5.2^b	5.1^b	5.2^b	5.3^b	5.4^b
Argentina	4.4 ^c	2.5	2.4	4.0	4.1	3.9	..
China	..	..	..	..	..	..	..
Romania	5.3	2.0	2.2	1.4 ^a	1.2	1.2	1.5
Russian Federation	0.4	0.5	0.6	1.0	1.0	1.2	1.2
Singapore	0.7	1.5	1.8	1.6	2.2	2.2	..
South Africa	..	0.9	3.3	2.9	3.2
Chinese Taipei	1.6 ^d	1.3	1.2	1.2	1.1	1.0	1.0

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 16. Percentage of Gross domestic expenditure on R&D (GERD) financed by abroad

Percentage

	2000	2009	2010	2011	2012	2013	2014
Australia	3.5	..	..	..	..	..	..
Austria	19.9 ^c	16.8	16.1 ^c	16.9	15.7 ^c	16.6	15.2 ^{c,p}
Belgium	12.2	12.1	13.3	13.0	13.0	13.1	..
Canada	17.4	7.1	6.5	5.9	5.7 ^a	5.9	6.0 ^p
Chile	..	19.0 ^a	19.8	21.3	17.5	15.0	13.8 ^p
Czech Republic	3.1	11.3	13.9	19.7	25.9	27.2	..
Denmark	..	8.6	7.2 ^c	7.1	7.2 ^c	7.4	7.4 ^{c,p}
Estonia	12.7	11.3	11.4	11.9	10.0	10.3	12.4 ^p
Finland	2.7	6.6	6.9	6.5	8.8	11.5	17.3
France	7.2 ^a	7.0	7.5 ^a	7.7	7.6	8.0	..
Germany	2.1 ^c	3.8	3.9	4.2	4.3	5.2	..
Greece	..	8.7 ^c	11.9 ^c	14.8	15.8	14.0	13.3 ^p
Hungary	10.6 ^{d,v}	10.9	12.4	13.5	15.4	16.6	17.5
Iceland	..	11.4	..	8.2 ^a	..	20.1 ^a	..
Ireland	8.9 ^c	16.5 ^c	17.0 ^c	20.3 ^c	21.0 ^c	19.3 ^c	19.3 ^c
Israel ¹	22.3 ^{a,d}	46.7 ^{a,d}	47.3 ^d	47.6 ^d	45.6 ^d	48.8 ^d	..
Italy	..	9.4	9.8	9.1	9.5	9.7	..
Japan	0.4	0.4	0.4	0.5	0.4	0.5 ^a	0.4
Korea	0.1 ^g	0.2	0.2	0.2	0.3	0.3	0.7
Luxembourg	1.6	5.4	20.6	19.5	34.4 ^a	32.3	..
Mexico	0.9	1.8	0.5	0.7	0.4 ^{c,p}	0.4 ^{c,p}	0.5 ^{c,p}
Netherlands	..	10.8	..	11.3 ^a	12.5 ^a	12.2	12.5 ^p
New Zealand	..	5.2	..	6.3	..	7.2	..
Norway	..	8.2	..	7.8	..	9.5	..
Poland	1.8	5.5	11.8	13.4	13.3	13.1	13.4
Portugal	5.2 ^c	4.1	3.2	6.0	5.2	6.1	..
Slovak Republic	2.3	12.8	14.7	14.2	18.7	18.0	23.7
Slovenia	6.2	6.0	6.0	7.0 ^a	8.6	8.9	9.3 ^p
Spain	4.9	5.5	5.7	6.7	6.6	7.4	..
Sweden	..	10.3	..	11.0	..	6.7	..
Switzerland	4.3	..	..	..	12.1	..	..
Turkey	1.2	1.1	0.8	0.7	0.6	0.8	1.1
United Kingdom	16.0	16.6 ^c	17.6 ^c	17.8	19.8 ^c	18.7	18.9 ^{c,p}
United States	.. ⁿ	2.9 ^{a,j}	3.7 ⁱ	3.8 ⁱ	4.0 ^j	4.5 ^{i,p}	..
EU28 (OECD estimates)	7.1 ^b	8.4 ^b	8.9 ^b	9.3 ^b	9.8 ^b	10.2 ^b	..
OECD-Total	..	4.6^b	5.1^b	5.3^b	5.5^b	5.8^b	..
Argentina	1.6 ^c	0.7	0.6	0.5	0.6	0.5	..
China	2.7	1.3 ^a	1.3	1.3	1.0	0.9	0.8
Romania	4.9	8.3	11.1	12.1 ^a	14.4	15.5	17.0
Russian Federation	12.0	6.5	3.5	4.3	4.0	3.0	2.5
Singapore	4.0	5.9	4.9	5.0	5.9	5.8	..
South Africa	..	12.1	12.1	15.0	13.1
Chinese Taipei	0.0 ^d	0.0	0.0	0.0	0.1	0.1	0.1

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Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 17. Percentage of Gross domestic expenditure on R&D (GERD) performed by the business enterprise sector

Percentage

	2000	2009	2010	2011	2012	2013	2014
Australia	47.8	..	58.2 ^c	57.9 ^{c,v}	..	56.3 ^c	..
Austria	..	68.1	68.4 ^c	68.8	70.2 ^c	70.8	70.8 ^{c,p}
Belgium	72.3	66.1	67.1	68.7	70.9	70.7	71.2 ^c
Canada	60.3 ^g	53.2 ^g	51.7 ^g	53.1 ^g	51.1 ^{a,g}	50.1 ^g	49.9 ^{g,p}
Chile	..	29.3 ^a	29.6	34.0	34.4	35.0	33.5 ^p
Czech Republic	60.0	56.5	57.7	55.3	53.6	54.1	56.0 ^p
Denmark	..	69.8	67.0	66.7	65.6	64.0	64.0 ^{c,p}
Estonia	22.5	44.7	50.2	63.2	57.5	47.7	43.4 ^p
Finland	70.9	71.4	69.6	70.5	68.7	68.9	67.7
France	62.5 ^a	61.7	63.2 ^a	64.0	64.6	64.7	64.8 ^p
Germany	70.3	67.6	67.1	67.7	68.0	67.2	67.9 ^{c,p}
Greece	..	..	..	34.9 ^a	34.3	33.3	34.0 ^p
Hungary	44.3 ^{d,v}	57.2 ^v	59.8 ^v	62.4 ^v	65.6 ^v	69.4 ^v	71.5 ^v
Iceland	56.4 ^c	50.3	..	53.1 ^a	..	56.8 ^a	56.8
Ireland	71.6 ^c	68.3 ^c	68.7 ^c	69.8 ^c	71.8 ^c	73.4 ^c	73.4 ^c
Israel ¹	80.5 ^{a,d}	83.5 ^d	83.0 ^d	83.8 ^d	84.1 ^d	84.3 ^d	84.5 ^d
Italy	50.1	53.3	53.9	54.6	54.2	54.7	55.7 ^p
Japan	71.0	75.8	76.5	77.0	76.6	76.1 ^a	77.8
Korea	74.0 ^g	74.3	74.8	76.5	77.9	78.5	78.2
Luxembourg	92.6	75.9	66.3	65.9	55.3 ^a	52.5	52.6 ^{c,p}
Mexico	29.8	41.1	38.4	39.0	..	..	..
Netherlands	55.1	47.1	47.9	56.6 ^a	56.6 ^a	55.7	56.3 ^p
New Zealand	..	41.8	..	45.4	..	46.4	..
Norway	..	51.6	51.2	52.2	52.3	52.5	53.7 ^p
Poland	36.1	28.5	26.6	30.1	37.2	43.6	46.6
Portugal	27.8 ^c	47.3	45.9	47.4	49.7	47.5	46.1 ^p
Slovak Republic	65.8	41.0	42.1	37.2	41.3	46.3	36.8
Slovenia	56.3	64.6	67.8	73.9 ^a	75.7	76.5	77.3 ^p
Spain	53.7	51.9	51.5	52.1	53.0	53.1	52.6 ^p
Sweden	..	70.9	68.7 ^c	69.1	67.8 ^c	68.9 ^l	67.0 ^p
Switzerland	73.9	..	..	..	69.3	..	..
Turkey	33.4	40.0	42.5	43.2	45.1	47.5	49.8
United Kingdom	65.0	60.4 ^c	60.9 ^c	63.6	63.3 ^c	63.9	64.4 ^{c,p}
United States	74.2 ^j	69.5 ^j	68.0 ^j	68.6 ^j	69.3 ^j	70.6 ^{j,p}	..
EU28 (OECD estimates)	63.6 ^b	61.0 ^b	61.1 ^b	62.4 ^b	62.8 ^b	62.8 ^b	63.2 ^b
OECD-Total	69.3^b	67.0^b	66.5^b	67.3^b	67.6^b	68.1^b	68.5^b
Argentina	25.9	22.3	23.2	24.6	21.5	20.7	..
China	60.0 ^a	73.2 ^a	73.4	75.7	76.2	76.6	77.3
Romania	69.4	40.2	38.3	36.0 ^a	39.0	30.7	41.5
Russian Federation	70.8	62.4	60.5	61.0	58.3	60.6	59.6
Singapore	62.0	61.6	60.8	62.1	60.9	59.4	..
South Africa	..	53.2	49.7	47.1	44.3
Chinese Taipei	63.6 ^d	70.2	71.6	72.7	74.3	75.7	77.2

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Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 18. Percentage of Gross domestic expenditure on R&D (GERD) performed by the higher education sector

Percentage

	2000	2009	2010	2011	2012	2013	2014
Australia	26.8	..	26.4 ^c	28.1 ^{c,v}	..	29.6 ^c	..
Austria	..	26.1	25.8 ^c	25.6	24.7 ^c	24.3	24.3 ^{c,p}
Belgium	20.2	23.7	23.5	22.3	20.5	20.8	20.2 ^c
Canada	28.2	35.9	36.8	37.2	39.6 ^a	39.8	40.4 ^p
Chile	..	39.8 ^a	38.5	32.4	34.3	39.3	38.9 ^p
Czech Republic	14.2	19.7	20.0	24.4	27.5	27.2	25.4 ^p
Denmark	..	27.7	30.3	30.9	31.6	33.2	33.2 ^{c,p}
Estonia	52.4	42.2	38.0	27.8	32.1	42.3	44.4 ^p
Finland	17.8	18.9	20.4	20.0	21.6	21.5	22.9
France	18.8 ^a	20.8	21.6 ^a	20.9	20.8	20.8	20.6 ^p
Germany	16.1	17.7	18.2	17.9	17.7	17.9	17.3 ^{c,p}
Greece	..	..	..	40.2 ^a	39.9	37.4	37.9 ^p
Hungary	24.0 ^{d,v}	20.9 ^v	19.9 ^v	20.2 ^v	18.4 ^v	14.4 ^v	13.5 ^v
Iceland	16.2 ^c	25.1	..	26.4 ^{a,m}	..	35.4 ^a	35.3
Ireland	20.2 ^c	26.6 ^c	26.5 ^c	25.3 ^c	23.4 ^c	22.0 ^c	22.0 ^c
Israel ¹	15.6 ^{a,d,g}	13.3 ^d	13.7 ^d	12.9 ^d	12.8 ^d	12.7 ^d	12.5 ^d
Italy	31.0	30.3	28.8	28.6	28.0	28.3	26.9 ^p
Japan	14.5	13.4	12.9	13.2	13.4	13.5 ^a	12.6
Korea	11.3 ^g	11.1	10.8	10.1	9.5	9.2	9.0
Luxembourg	0.2	8.0	12.4	10.7	16.9 ^a	18.6	18.5 ^{c,p}
Mexico	28.3	29.2	27.8	28.9	..	..	..
Netherlands	31.9	40.2	40.4	32.6 ^a	31.6 ^a	32.1	32.3 ^p
New Zealand	..	33.0	..	31.8	..	30.4	..
Norway	..	32.0	32.3	31.4	31.3	31.5	31.1 ^p
Poland	31.5	37.1	37.2	35.1	34.4	29.3	29.2
Portugal	37.5 ^c	36.6	36.9	36.4	36.5	44.6 ^a	45.5 ^p
Slovak Republic	9.5	25.0	27.6	34.9	34.0	33.1	34.4
Slovenia	16.6	14.6	13.9	11.8 ^a	11.1	10.4	10.5 ^p
Spain	29.6	27.8	28.3	28.2	27.7	28.0	28.3 ^p
Sweden	..	24.6	26.3 ^c	26.3	27.1 ^c	27.1 ^l	29.0 ^p
Switzerland	22.9	..	..	..	28.1	..	..
Turkey	60.4	47.4	46.0	45.5	43.9	42.1	40.5
United Kingdom	20.6	27.9 ^c	27.0 ^c	26.0	26.7 ^c	26.4	26.1 ^{c,p}
United States	11.4 ^j	14.0 ^j	14.7 ^j	14.6 ^j	14.5 ^j	14.2 ^{j,p}	..
EU28 (OECD estimates)	21.2 ^b	24.2 ^b	24.4 ^b	23.6 ^b	23.5 ^b	23.5 ^b	23.2 ^b
OECD-Total	16.0^b	18.4^b	18.7^b	18.4^b	18.4^b	18.3^b	17.9^b
Argentina	33.5	31.3	30.9	31.4	31.2	30.5	..
China	8.6 ^a	8.1 ^a	8.5	7.9	7.6	7.2	6.9
Romania	11.8	24.7	24.5	22.9 ^a	19.7	19.7	15.2
Russian Federation	4.5	7.1	8.4	9.0	9.3	9.0	9.8
Singapore	23.9	27.1	28.8	27.7	29.0	29.2	..
South Africa	..	24.3	26.8	29.8	30.7
Chinese Taipei	12.2 ^d	12.7	12.1	11.8	11.3	10.7	10.0

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 19. Percentage of Gross domestic expenditure on R&D (GERD) performed by the government sector

Percentage

	2000	2009	2010	2011	2012	2013	2014
Australia	22.6	..	12.4 ^c	11.2 ^{c,v}	..	11.2 ^c	..
Austria	..	5.3	5.2 ^c	5.1	4.6 ^c	4.4	4.4 ^{c,p}
Belgium	6.3	9.2	8.4	8.1	8.2 ^a	8.1	8.2 ^c
Canada	11.2	10.4	11.0	9.4	8.9 ^a	9.6	9.2 ^p
Chile	..	3.3 ^a	3.7	4.0	4.1	8.4 ^a	8.1 ^p
Czech Republic	25.3	23.3	21.7	19.8	18.4	18.3	18.2 ^p
Denmark	..	2.1	2.2	2.0	2.4	2.3	2.3 ^{c,p}
Estonia	23.1	11.0	10.6	8.1	9.3	8.9	11.0 ^p
Finland	10.6	9.1	9.2	8.8	9.0	8.9	8.6
France	17.3 ^a	16.3	14.0 ^a	13.9	13.2	13.0	13.1 ^p
Germany	13.6 ^o	14.8 ^o	14.8 ^o	14.5 ^o	14.3 ^o	14.9 ^o	14.8 ^{c,o,p}
Greece	..	..	..	23.8 ^a	24.8	28.0	26.9 ^p
Hungary	26.1 ^{d,v}	20.1 ^v	18.5 ^v	15.8 ^v	14.4 ^v	14.9 ^v	13.7 ^v
Iceland	25.5 ^c	22.1	..	17.7 ^a	..	6.5 ^a	6.5
Ireland	8.1 ^c	5.0 ^c	4.8 ^c	4.9 ^c	4.8 ^c	4.7 ^c	4.7 ^c
Israel ¹	3.2 ^{a,d}	1.9 ^d	2.1 ^d	2.1 ^d	2.0 ^d	1.9 ^d	1.9 ^d
Italy	18.9	13.1	13.7	13.4	14.8	14.0	14.5 ^p
Japan	9.9	9.2	9.0	8.4	8.6	9.2 ^a	8.3
Korea	13.3 ^g	13.0	12.7	11.7	11.3	10.9	11.2
Luxembourg	7.1 ^o	16.1 ^{a,o}	21.3 ^o	23.4 ^o	27.8 ^{a,o}	29.0 ^o	28.9 ^{c,o,p}
Mexico	41.7	26.8	32.4	30.5	..	..	..
Netherlands	12.0 ^a	12.7 ^o	11.7 ^o	10.8 ^{a,o}	11.8 ^{a,o}	12.2 ^o	11.4 ^{o,p}
New Zealand	..	25.3	..	22.7	..	23.2	..
Norway	..	16.4	16.4	16.4	16.4	16.0	15.2 ^p
Poland	32.2	34.3	35.9	34.5	28.0	26.8	24.0
Portugal	23.9 ^c	7.3	7.1	7.4	5.4	6.5	6.4 ^p
Slovak Republic	24.7 ^d	33.9 ^d	30.0 ^d	27.7 ^d	24.5 ^d	20.5 ^d	28.3 ^d
Slovenia	25.9	20.8	18.2	14.3 ^a	13.1	13.0	12.2 ^p
Spain	15.8	20.1	20.1	19.5	19.1	18.7	18.9 ^p
Sweden	..	4.4	4.9 ^c	4.3	4.8 ^c	3.7	3.7 ^p
Switzerland	1.3 ^{a,h}	..	..	..	0.8 ^h	..	..
Turkey	6.2	12.6	11.4	11.3	11.0	10.4	9.7
United Kingdom	12.6	9.2 ^c	9.5 ^c	8.6	8.0 ^c	7.9	7.8 ^{c,p}
United States	10.8 ^{h,j}	12.0 ⁱ	12.7 ⁱ	12.6 ⁱ	12.0 ⁱ	11.2 ^{i,p}	..
EU28 (OECD estimates)	14.2 ^b	13.6 ^b	13.3 ^b	12.9 ^b	12.7 ^b	12.7 ^b	12.6 ^b
OECD-Total	11.9^b	12.0^b	12.2^b	11.8^b	11.5^b	11.3^b	11.2^b
Argentina	38.3	44.7	44.3	42.3	45.6	47.0	..
China	31.5 ^a	18.7 ^a	18.1	16.3	16.3	16.2	15.8
Romania	18.8	34.9	36.8	40.7 ^a	40.9	49.2	43.0
Russian Federation	24.4	30.3	31.0	29.8	32.2	30.3	30.5
Singapore	14.1	11.3	10.4	10.2	10.0	11.3	..
South Africa	..	21.6	22.7	22.4	22.9
Chinese Taipei	23.5 ^d	16.7	15.9	15.1	14.1	13.3	12.6

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 20. Percentage of Gross domestic expenditure on R&D (GERD) performed by the private non-profit sector

Percentage

	2000	2009	2010	2011	2012	2013	2014
Australia	2.77	..	2.96 ^c	2.98 ^{c,v}	..	2.84 ^c	..
Austria	..	0.48 ^a	0.49 ^c	0.49	0.44 ^c	0.42	0.42 ^{c,p}
Belgium	1.18	1.00	0.91	0.90	0.38 ^a	0.36	0.35 ^c
Canada	0.28	0.41	0.44	0.40	0.46 ^a	0.49	0.50 ^p
Chile	..	27.53 ^a	28.16	29.57	27.23	17.28 ^a	19.49 ^p
Czech Republic	0.51	0.54	0.61	0.55	0.51	0.34	0.41 ^p
Denmark	..	0.42	0.44	0.37	0.41	0.41	0.41 ^{c,p}
Estonia	1.95	2.17	1.25	0.91	1.05	1.06	1.20 ^p
Finland	0.67	0.58	0.68	0.71	0.68	0.71	0.77
France	1.42 ^a	1.20	1.25 ^a	1.25	1.44	1.47	1.53 ^p
Germany	.. ⁿ	.. ⁿ	.. ⁿ	.. ⁿ	.. ⁿ	.. ⁿ	.. ⁿ
Greece	..	..	..	1.01	0.96	1.25	1.25 ^p
Hungary	..	..	..	..	..	..	..
Iceland	1.87 ^c	2.46	..	2.75 ^a	..	1.38 ^a	1.40
Ireland	..	..	..	..	..	..	..
Israel ¹	0.75 ^{a,d}	1.30 ^d	1.22 ^d	1.20 ^d	1.10 ^d	1.12 ^d	1.10 ^d
Italy	..	3.30	3.62	3.34	2.96	2.99	2.94 ^p
Japan	4.62	1.61	1.59	1.45	1.40	1.28 ^a	1.34
Korea	1.36 ^g	1.64	1.71	1.65	1.28	1.33	1.52
Luxembourg	.. ⁿ	.. ⁿ	.. ⁿ	.. ⁿ	.. ⁿ	.. ⁿ	.. ⁿ
Mexico	0.26	2.91	1.41	1.61	..	..	..
Netherlands	.. ⁿ	.. ⁿ	.. ⁿ	.. ⁿ	.. ⁿ	.. ⁿ	.. ⁿ
New Zealand	..	..	..	..	..	..	..
Norway	..	..	..	..	..	..	..
Poland	0.13	0.13	0.28	0.23	0.40	0.29	0.30
Portugal	10.79 ^c	8.81	10.09	8.84	8.47	1.33 ^a	1.97 ^p
Slovak Republic	0.00	0.05	0.31	0.21	0.10	0.15	0.41
Slovenia	1.17	0.07	0.06	0.05 ^a	0.05	0.04	0.04 ^p
Spain	0.90	0.20	0.19	0.17	0.19	0.17	0.17 ^p
Sweden	..	0.07 ^{a,m}	0.03 ^{c,m}	0.32 ^a	0.29 ^c	0.22 ^l	0.24 ^p
Switzerland	1.92	..	..	..	1.84	..	..
Turkey	..	..	..	..	..	..	..
United Kingdom	1.82	2.48 ^c	2.48 ^c	1.81	1.91 ^c	1.79	1.71 ^{c,p}
United States	3.63 ^{c,j}	4.47 ^{c,j}	4.54 ^{c,j}	4.27 ^{c,j}	4.18 ^{c,j}	4.10 ^{c,j,p}	..
EU28 (OECD estimates)	0.90 ^b	1.17 ^b	1.21 ^b	1.06 ^b	1.04 ^b	0.95 ^b	0.96 ^b
OECD-Total	2.71^b	2.68^b	2.69^b	2.51^b	2.42^b	2.33^b	2.37^b
Argentina	2.37	1.69	1.63	1.66	1.76	1.75	..
China	..	..	..	..	..	..	..
Romania	..	0.17	0.41	0.38 ^a	0.40	0.39	0.37
Russian Federation	0.22	0.23	0.19	0.17	0.18	0.13	0.13
Singapore
South Africa	..	0.90	0.80	0.77	2.11
Chinese Taipei	0.70 ^d	0.37	0.36	0.34	0.30	0.32	0.33

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 21. Total researchers in headcount*Headcount*

	2000	2009	2010	2011	2012	2013	2014
Australia	..	..	..	..	..	..	..
Austria	..	59 341	..	65 609	..	71 448	..
Belgium	..	55 858	59 403	63 207	..	66 724	..
Canada	..	..	..	..	..	..	..
Chile	..	8 770 ^m	9 453 ^m	9 388	10 447	9 795	12 320 ^p
Czech Republic	30 165	43 092	43 418	45 902	47 651	51 455	..
Denmark	..	54 049	54 813	56 845	57 520	57 654	..
Estonia	4 570	7 453	7 491	7 646	7 634	7 515	..
Finland	45 241 ^u	55 797	57 163	57 549	56 704	56 720	..
France	211 365 ^m	296 093	324 551 ^a	338 470	356 445	366 299	..
Germany	..	487 242	..	522 010	..	549 283	..
Greece	..	..	..	45 239 ^a	..	53 744	..
Hungary	27 876 ^d	35 267	35 700	36 945	37 019	37 803	..
Iceland	..	3 754	..	3 270 ^a	..	3 458 ^a	..
Ireland	..	20 901	20 801 ^c	22 358	..	25 393	..
Israel ¹	..	..	..	..	..	..	..
Italy	100 171	149 314	149 807	151 597	157 960	163 925	..
Japan	..	889 341	894 138	892 684	887 067	892 406	926 671
Korea	159 973 ^g	323 175	345 912	375 176	401 724	410 333	437 447
Luxembourg	..	2 951	..	3 114	..	2 713	..
Mexico	..	..	..	..	..	..	..
Netherlands	52 718	54 505	64 829	84 072 ^a	107 184 ^a	110 535	..
New Zealand	..	27 000	..	28 100	..	29 300	..
Norway	..	44 762	44 774	45 578	46 747	47 795	..
Poland	88 189	98 165	100 934	100 723	103 627	109 611	..
Portugal	29 761 ^c	75 206	80 259	82 354	81 750	78 290 ^a	..
Slovak Republic	15 747	21 832	24 049	24 711	25 069	24 441	25 080
Slovenia	6 562	10 444	11 056	12 514 ^a	12 362	12 111	..
Spain	..	221 314	224 000	220 254	215 544	208 767	..
Sweden	..	73 025 ^m	..	80 154 ^m	..	101 820 ^{a,m}	..
Switzerland	44 230	..	..	..	60 278	..	..
Turkey	67 512	114 436	124 796	137 452	155 133	166 097	181 544
United Kingdom	..	385 489 ^c	394 755 ^c	429 009 ^c	442 385 ^c	466 689 ^c	..
United States	..	..	..	..	..	..	..
EU28 (OECD estimates)	..	..	..	..	..	..	..
OECD-Total	..	..	..	..	..	..	..
Argentina	41 741	67 245	74 020	79 092	81 748	83 226	..
China	..	1 556 518 ^u	1 747 589	1 905 899	2 069 650	..	..
Romania	23 179	30 645	30 707	25 489 ^a	27 838	27 600	..
Russian Federation	425 954 ^m	369 237 ^m	368 915 ^m	374 791 ^m	372 620 ^m	369 015 ^m	373 905 ^m
Singapore	20 800	34 387	36 561	38 013	38 432	40 385	..
South Africa	..	40 797	37 901	40 653	42 828
Chinese Taipei	69 526 ^{d,m}	155 216	165 585	174 600	179 830	180 353	182 119

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Table 22. Women researchers as a percentage of total researchers
Based on headcount

Percentage

	2000	2009	2010	2011	2012	2013	2014
Australia	..	..	..	..	..	..	..
Austria	..	28.4	..	29.0	..	29.6	..
Belgium	..	32.7	33.2	33.5	..	33.4	..
Canada	..	..	..	..	..	..	..
Chile	..	32.3	32.4	30.8	31.0	34.3	31.5 ^P
Czech Republic	27.8	28.9	28.1	28.2	27.5	28.3	..
Denmark	..	31.7	32.6 ^c	33.1	35.4 ^c	34.5	..
Estonia	43.1	42.5	43.4	43.7	44.0	44.4	..
Finland	28.5 ^u	31.4	31.9	32.1	32.2	31.5	..
France	27.5	26.9 ^d	25.3 ^{a,m}	25.6 ^m	25.5 ^m	25.5 ^m	..
Germany	..	25.0	..	26.8	..	27.9	..
Greece	..	..	..	36.7 ^a	..	39.4	..
Hungary	34.2 ^d	32.1	32.0	31.7	30.9	30.3	..
Iceland	..	42.6	..	37.3 ^a	..	44.4 ^a	..
Ireland	..	34.2	34.4 ^c	32.6	..	32.3	..
Israel ¹	..	..	..	..	..	..	..
Italy	27.9	33.8	34.5	34.9	35.5	35.7	..
Japan	..	13.6	13.8	14.0	14.4	14.6	14.7
Korea	10.2 ^g	15.8	16.7	17.3	17.7	18.2	18.5
Luxembourg	..	21.2	..	22.9	..	27.3	..
Mexico	..	..	..	..	..	..	..
Netherlands	..	25.9	..	24.2 ^a	24.0 ^a	23.6	..
New Zealand	..	..	..	..	..	..	..
Norway	..	35.2	35.7	36.2	36.2	36.9	..
Poland	38.1	39.5	39.0	38.6	38.3	37.8	..
Portugal	43.4 ^c	44.3	43.9	44.0	45.0	45.4 ^a	..
Slovak Republic	..	42.5	42.4	42.6	42.3	42.7	42.5
Slovenia	35.9	35.7	36.3	36.4 ^a	35.8	36.0	..
Spain	..	38.1	38.4	38.7	38.8	39.3	..
Sweden	..	35.7	..	37.2	..	33.3 ^a	..
Switzerland	20.3	..	..	..	32.4	..	..
Turkey	34.3	36.3	35.8	35.6	36.2	36.2	36.9
United Kingdom	..	37.9 ^c	38.3 ^c	37.7 ^c	37.8 ^c	38.1 ^c	..
United States	..	..	..	..	..	..	..
EU28 (OECD estimates)	..	..	..	..	..	..	..
OECD-Total	..	..	..	..	..	..	..
Argentina	48.5	51.9	52.2	52.7	52.7	52.7	..
China	..	..	..	..	..	..	..
Romania	42.5	44.7	44.0	46.1 ^a	45.1	45.7	..
Russian Federation	44.1	41.9	41.7	41.4	41.2	40.9	40.5
Singapore	..	28.5	29.3	29.2	29.6	29.6	..
South Africa	..	40.8	41.7	42.3	43.7
Chinese Taipei	18.3 ^d	20.6	20.9	21.5	21.8	22.0	22.1

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

**Table 23. Business enterprise expenditure on R&D (BERD)
at current prices and PPPs**

Million USD

	2000	2009	2010	2011	2012	2013	2014
Australia	3 809.3	11 629.5	11 982.6	12 124.9 ^v	..	12 999.7	..
Austria	..	6 031.1	6 564.8 ^c	6 814.1	7 833.0 ^c	8 440.7	8 617.4 ^{c,p}
Belgium	4 028.7	5 328.8	5 890.2	6 683.8	7 820.1	8 271.4	8 562.8 ^c
Canada	10 098.0 ^g	13 332.7 ^g	12 954.9 ^g	13 625.3 ^g	13 417.9 ^g	13 189.7 ^g	12 878.0 ^{g,p}
Chile	..	282.6 ^a	304.4	419.5	466.7	515.2	497.9 ^p
Czech Republic	1 117.7	2 067.3	2 191.9	2 591.2	2 898.1	3 264.2	3 669.2 ^p
Denmark	..	4 685.8	4 569.5	4 775.5	4 868.2	5 020.7	5 071.4 ^{c,p}
Estonia	18.3	168.1	223.0	463.3	417.0	293.0	229.8 ^p
Finland	3 152.8	5 365.6	5 332.9	5 560.6	5 144.7	5 041.4	4 774.3
France	20 608.5	30 686.5	32 062.8	34 169.6	35 408.4	37 503.1	38 055.7 ^p
Germany	36 825.4	55 936.4	58 961.7	65 136.3	68 467.7	68 913.6	72 452.6 ^{c,p}
Greece	294.5	..	..	693.9 ^a	688.2	794.7	829.1 ^p
Hungary	433.0 ^v	1 363.3 ^v	1 479.9 ^v	1 683.0 ^v	1 877.5 ^v	2 307.1 ^v	2 424.2 ^v
Iceland	122.0 ^c	170.0	162.1 ^{a,c}	167.3 ^{a,l}	..	147.0 ^a	154.7
Ireland	875.8 ^c	2 094.0	2 176.4 ^c	2 234.8	2 370.6 ^c	2 466.2	2 540.7 ^c
Israel ¹	4 959.5 ^{a,d}	7 101.4 ^d	7 187.7 ^d	7 979.6 ^d	8 788.5 ^d	9 271.8 ^d	9 609.0 ^d
Italy	7 637.0	13 133.2	13 567.8	14 081.4	14 716.3	15 389.6	15 449.7 ^p
Japan	70 080.0	103 759.2	107 584.6	114 204.6	116 716.3	123 530.9	129 745.9
Korea	13 723.5 ^g	34 150.3	39 025.0	44 680.5	50 559.8	53 430.4	56 528.9
Luxembourg	358.7	518.8	434.0	465.3	343.4 ^a	356.0	361.8 ^p
Mexico	1 000.6	2 878.8	3 022.3	3 143.7	..	..	..
Netherlands	4 995.7	5 821.9	6 146.9	8 336.8 ^a	8 537.6 ^a	8 784.3	9 031.2 ^p
New Zealand	..	691.2	..	802.9	..	883.0	..
Norway	..	2 411.3	2 432.5	2 638.8	2 780.0	2 943.6	3 091.7 ^p
Poland	940.2	1 385.9	1 524.8	1 926.9	2 945.1	3 539.0	4 207.2
Portugal	368.2 ^c	2 069.8	2 004.8	1 963.2	1 953.4	1 840.4	1 774.1 ^p
Slovak Republic	253.0	243.3	343.7	335.9	471.4	568.0	501.1
Slovenia	271.6	658.4	789.1	1 047.8 ^a	1 144.7	1 194.4	1 157.1 ^p
Spain	4 181.6	10 664.1	10 471.2	10 506.7	10 256.7	10 253.8	10 040.9 ^p
Sweden	..	9 022.7	8 658.0 ^c	9 269.5	9 408.6 ^c	9 862.5	9 307.4 ^p
Switzerland	4 262.6	..	..	..	9 399.4	..	..
Turkey	944.3	3 546.0	4 194.7	4 856.7	5 742.0	6 512.1	7 532.6
United Kingdom	18 101.3	23 813.5	23 261.6	24 880.8	24 585.1	26 669.1	28 447.3 ^{c,p}
United States	199 961.0 ⁱ	282 393.0 ⁱ	278 977.0 ⁱ	294 092.0 ⁱ	302 251.0 ⁱ	322 528.0 ⁱ	..
EU28 (OECD estimates)	117 218.5 ^b	183 063.7 ^b	188 848.5 ^b	205 196.6 ^b	213 919.2 ^b	222 428.1 ^b	229 587.4 ^b
OECD-Total	427 413.5^b	652 076.8^b	664 076.8^b	711 086.1^b	737 904.3^b	779 187.5^b	807 684.0^b
Argentina	412.1	759.2	890.7	1 101.3	1 113.3	1 147.7	..
China	19 813.7 ^a	135 661.9 ^a	156 726.1	187 684.1	222 406.0	255 515.6	285 016.9
Romania	325.4	600.0	581.1	622.2 ^a	677.4	445.5	623.9 ^b
Russian Federation	7 435.4	21 616.7	20 025.3	21 451.5	22 116.5	22 189.7	23 762.3
Singapore	1 862.3	4 088.4	4 391.1	5 194.4	4 983.3	5 162.0	..
South Africa	..	2 561.8	2 201.8	2 191.9	2 136.3
Chinese Taipei	5 840.4 ^d	15 891.0	17 943.7	19 949.5	21 589.2	23 263.4	25 019.7

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

**Table 24. Business enterprise expenditure on R&D (BERD)
as a percentage of GDP**

Percentage

	2000	2009	2010	2011	2012	2013	2014
Australia	0.71	1.29	1.28	1.23 ^v	..	1.19	..
Austria	..	1.78	1.87 ^c	1.84	2.03 ^c	2.10	2.11 ^{c,p}
Belgium	1.39	1.31	1.38	1.48	1.68	1.72	1.76 ^c
Canada	1.13 ^g	1.02 ^g	0.95 ^g	0.95 ^g	0.91 ^g	0.85 ^g	0.80 ^{g,p}
Chile	..	0.10 ^{a,y}	0.10 ^y	0.12 ^y	0.13 ^y	0.14 ^y	0.13 ^{p,y}
Czech Republic	0.67	0.73	0.77	0.86	0.96	1.03	1.12 ^p
Denmark	..	2.14	1.97	1.98	1.97	1.96	1.95 ^{c,p}
Estonia	0.14	0.62	0.79	1.46	1.22	0.82	0.62 ^p
Finland	2.30	2.68	2.59	2.56	2.35	2.27	2.15
France	1.30	1.36	1.37	1.40	1.44	1.45	1.46 ^p
Germany	1.68	1.84	1.82	1.89	1.95	1.90	1.93 ^{c,p}
Greece	0.14	..	..	0.23 ^a	0.24	0.27	0.28 ^p
Hungary	0.35 ^v	0.65 ^v	0.69 ^v	0.75 ^v	0.83 ^v	0.97 ^v	0.98 ^v
Iceland	1.47 ^c	1.34	1.32 ^{a,c}	1.33 ^{a,l}	..	1.06 ^a	1.07
Ireland	0.78 ^c	1.10	1.10 ^c	1.07	1.12 ^c	1.13	1.11 ^c
Israel ¹	3.16 ^{a,d}	3.44 ^d	3.26 ^d	3.36 ^d	3.47 ^d	3.45 ^d	3.47 ^d
Italy	0.50	0.65	0.66	0.66	0.69	0.71	0.72 ^p
Japan	2.13 ^y	2.54 ^y	2.49 ^y	2.60 ^y	2.56 ^y	2.64 ^y	2.79 ^y
Korea	1.61 ^g	2.45	2.59	2.87	3.14	3.26	3.36
Luxembourg	1.45	1.30	1.01	0.99	0.71 ^a	0.68	0.66 ^p
Mexico	0.10	0.18	0.17	0.17	..	..	..
Netherlands	0.99	0.79	0.83	1.08 ^a	1.10 ^a	1.09	1.11 ^p
New Zealand	..	0.53	..	0.57	..	0.54	..
Norway	..	0.89	0.85	0.85	0.85	0.87	0.92 ^p
Poland	0.23	0.19	0.19	0.22	0.33	0.38	0.44
Portugal	0.20 ^c	0.75	0.70	0.69	0.68	0.63	0.59 ^p
Slovak Republic	0.42	0.19	0.26	0.25	0.33	0.38	0.33
Slovenia	0.76	1.17	1.40	1.79 ^a	1.95	1.99	1.85 ^p
Spain	0.47	0.70	0.69	0.69	0.68	0.67	0.64 ^p
Sweden	..	2.45	2.21 ^c	2.24	2.22 ^c	2.28	2.12 ^p
Switzerland	1.72	..	..	..	2.05	..	..
Turkey	0.16 ^y	0.34 ^y	0.36 ^y	0.37 ^y	0.42 ^y	0.45 ^y	0.50 ^y
United Kingdom	1.12	1.05	1.03	1.07	1.03	1.06	1.10 ^{c,p}
United States	1.94 ^j	1.96 ^j	1.86 ^j	1.90 ^j	1.87 ^j	1.94 ^j	..
EU28 (OECD estimates)	1.07 ^b	1.12 ^b	1.13 ^b	1.17 ^b	1.21 ^b	1.21 ^b	1.22 ^b
OECD-Total	1.48^b	1.56^b	1.53^b	1.57^b	1.58^b	1.61^b	1.62^b
Argentina	0.09	0.11	0.11	0.13	0.12	0.12	..
China	0.54 ^{a,y}	1.23 ^{a,y}	1.27 ^y	1.36 ^y	1.47 ^y	1.54 ^y	1.58 ^y
Romania	0.25	0.19	0.17	0.18 ^a	0.19	0.12	0.16
Russian Federation	0.74 ^y	0.78 ^y	0.68 ^y	0.66 ^y	0.66 ^y	0.69 ^y	0.71 ^y
Singapore	1.13	1.33	1.22	1.34	1.22	1.19	..
South Africa	..	0.44	0.37	0.35	0.32
Chinese Taipei	1.21 ^d	1.99	2.01	2.11	2.19	2.27	2.32

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, *Main Science and Technology Indicators Database*, January 2016.

**Table 25. Business enterprise expenditure on R&D (BERD)
at 2010 prices and PPPs**

Million 2010 USD

	2000	2009	2010	2011	2012	2013	2014
Australia	4 889.0	11 842.8	11 982.6	11 965.0 ^v	..	12 159.7	..
Austria	..	6 117.0	6 564.8 ^c	6 644.2	7 353.7 ^c	7 643.8	7 727.0 ^{c,p}
Belgium	5 071.1	5 463.2	5 890.2	6 447.3	7 308.9	7 492.0	7 759.1 ^c
Canada	12 740.2 ^g	13 495.5 ^g	12 954.9 ^g	13 395.2 ^g	13 044.8 ^g	12 352.1 ^g	12 016.7 ^{g,p}
Chile	..	303.8 ^a	304.4	395.4	435.3	494.5	467.5 ^p
Czech Republic	1 388.4	2 031.4	2 191.9	2 495.2	2 749.9	2 945.0	3 248.8 ^p
Denmark	..	4 891.4	4 569.5	4 646.4	4 616.1	4 580.7	4 629.8 ^{c,p}
Estonia	27.5	171.1	223.0	440.6	386.9	264.4	206.6 ^p
Finland	3 996.9	5 343.5	5 332.9	5 405.2	4 883.5	4 664.7	4 398.3
France	26 953.0	31 194.7	32 062.8	33 378.2	34 358.1	34 856.1	35 170.9 ^p
Germany	49 846.6	57 314.7	58 961.7	63 493.9	65 876.3	64 258.9	66 299.8 ^{c,p}
Greece	382.7	..	..	687.3 ^a	651.2	712.0	751.5 ^p
Hungary	620.1 ^v	1 396.6 ^v	1 479.9 ^v	1 639.4 ^v	1 799.6 ^v	2 133.7 ^v	2 235.5 ^v
Iceland	137.8 ^c	170.4	162.1 ^{a,c}	166.0 ^{a,l}	..	140.0 ^a	144.0
Ireland	1 140.4 ^c	2 166.3	2 176.4 ^c	2 163.1	2 273.5 ^c	2 315.9	2 409.7 ^c
Israel ¹	5 069.0 ^{a,d}	7 188.1 ^d	7 187.7 ^d	7 777.2 ^d	8 267.3 ^d	8 471.4 ^d	8 748.3 ^d
Italy	10 044.0	13 172.4	13 567.8	13 682.3	13 847.4	14 130.6	14 111.7 ^p
Japan	85 302.5	105 026.5	107 584.6	112 002.7	112 122.2	117 571.2	123 804.1
Korea	15 765.5 ^g	34 567.4	39 025.0	44 716.9	50 096.2	53 507.2	56 972.5
Luxembourg	476.7	526.7	434.0	433.5	310.7 ^a	310.8	312.8 ^p
Mexico	1 424.3	2 913.9	3 022.3	2 985.5	..	..	..
Netherlands	6 501.8	5 821.3	6 146.9	8 142.4 ^a	8 209.2 ^a	8 116.8	8 347.0 ^p
New Zealand	..	700.3	..	781.9	..	784.7	..
Norway	..	2 484.0	2 432.5	2 554.5	2 639.6	2 726.9	2 888.4 ^p
Poland	1 255.0	1 454.0	1 524.8	1 875.4	2 778.0	3 258.8	3 884.5
Portugal	530.5 ^c	2 089.1	2 004.8	1 931.0	1 838.2	1 672.1	1 588.1 ^p
Slovak Republic	345.7	245.1	343.7	336.0	461.1	535.8	468.5
Slovenia	332.3	655.6	789.1	1 019.0 ^a	1 081.9	1 091.8	1 042.1 ^p
Spain	5 749.6	10 573.4	10 471.2	10 314.6	9 888.5	9 572.2	9 307.5 ^p
Sweden	..	9 040.2	8 658.0 ^c	9 022.8	8 916.9 ^c	9 251.3	8 795.4 ^p
Switzerland	5 748.1	..	..	..	8 500.5	..	..
Turkey	1 281.1	3 637.2	4 194.7	4 720.0	5 399.6	6 070.1	6 980.6
United Kingdom	21 530.7	23 323.4	23 261.6	24 685.3	23 869.7	25 240.0	26 761.8 ^{c,p}
United States	247 172.6 ⁱ	285 842.0 ⁱ	278 977.0 ⁱ	288 142.9 ⁱ	290 780.5 ⁱ	305 311.2 ⁱ	..
EU28 (OECD estimates)	153 063.8 ^b	185 054.2 ^b	188 848.5 ^b	200 394.0 ^b	205 165.6 ^b	206 631.7 ^b	211 402.1 ^b
OECD-Total	533 677.8^b	659 941.8^b	664 076.8^b	696 761.2^b	710 241.0^b	735 647.6^b	756 132.6^b
Argentina	506.8	766.4	890.7	1 073.5	1 060.3	1 064.4	..
China	24 638.1 ^a	137 321.8 ^a	156 726.1	183 892.0	214 063.9	242 324.3	266 424.7 ^b
Romania	578.6	628.8	581.1	602.7 ^a	652.5	423.7	583.8
Russian Federation	13 592.1	21 880.7	20 025.3	20 297.2	20 730.3	21 963.7	22 780.3
Singapore	2 303.9	4 141.0	4 391.1	5 089.0	4 799.1	4 890.0	..
South Africa	..	2 593.1	2 201.8	2 147.6	2 056.1
Chinese Taipei	7 219.6 ^d	16 085.7	17 943.7	19 545.9	20 770.9	22 021.9	23 301.4

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

**Table 26. Business enterprise expenditure on R&D (BERD)
as a percentage of value added in industry**

Percentage

	2000	2009	2010	2011	2012	2013	2014
Australia	1.07	1.94	1.90	1.83 ^v	..	1.81	..
Austria	..	2.74	2.89 ^c	2.82	3.11 ^c	3.23	3.27 ^{c,p}
Belgium	2.20	2.13	2.22	2.38	2.72	2.80	2.86 ^c
Canada	1.70 ^{b,g}	1.62 ^g	1.49 ^g	1.48 ^g	1.43 ^g	1.33 ^{b,g}	1.26 ^{b,g,p}
Chile	..	0.14 ^{a,y}	0.14 ^y	0.17 ^y	0.18 ^y	0.19 ^y	0.18 ^{p,y}
Czech Republic	0.94	1.07	1.13	1.25	1.40	1.52	1.61 ^p
Denmark	..	3.80	3.49	3.49	3.44	3.43	3.41 ^{c,p}
Estonia	0.20	1.00	1.23	2.20	1.83	1.23	0.95 ^p
Finland	3.64	4.56	4.41	4.41	4.12	4.02	3.81
France	2.15	2.35	2.37	2.42	2.50	2.52	2.54 ^{b,p}
Germany	2.60	2.95	2.87	2.99	3.08	3.00	3.05 ^{c,p}
Greece	0.22	..	..	0.44 ^a	0.46	0.51	0.52 ^p
Hungary	0.56 ^v	1.05 ^v	1.10 ^v	1.18 ^v	1.34 ^v	1.55 ^v	1.56 ^v
Iceland	2.32 ^c	2.15	2.08 ^{a,c}	2.07 ^{a,l}	..	1.71 ^a	1.72 ^b
Ireland	1.10 ^c	1.65	1.60 ^c	1.52	1.61 ^c	1.62	1.62 ^c
Israel ¹	5.18 ^{a,b,d}	5.70 ^{b,d}	5.52 ^{b,d}	5.70 ^{b,d}	5.84 ^{b,d}	5.84 ^{b,d}	5.99 ^{b,d}
Italy	0.77	1.06	1.08	1.08	1.13	1.18	1.19 ^p
Japan	3.13 ^{b,y}	3.94 ^{b,y}	3.82 ^{b,y}	4.03 ^{b,y}	3.96 ^{b,y}	4.09 ^{b,y}	4.31 ^{b,y}
Korea	2.32 ^g	3.61	3.77	4.14	4.56	4.73	4.87 ^b
Luxembourg	2.07	1.92	1.47	1.43	1.05 ^a	1.00	0.98 ^p
Mexico	0.14 ^b	0.24	0.24	0.22	..	..	..
Netherlands	1.49	1.22	1.27	1.65 ^a	1.66 ^a	1.67	1.71 ^p
New Zealand	..	0.81 ^b	..	0.89 ^b	..	0.85 ^b	..
Norway	..	1.38	1.31	1.30	1.29	1.33	1.42 ^p
Poland	0.33 ^b	0.27	0.28	0.32	0.47	0.53	0.61 ^b
Portugal	0.32 ^c	1.25	1.19	1.17	1.16	1.08	1.02 ^{b,p}
Slovak Republic	0.61	0.27	0.36	0.34	0.46	0.55	0.45
Slovenia	1.15	1.81	2.16	2.76 ^a	3.02	3.08	2.81 ^p
Spain	0.68	1.05	1.08	1.08	1.08	1.08	1.03 ^p
Sweden	..	4.03	3.55 ^c	3.60	3.59 ^c	3.70	3.43 ^p
Switzerland	2.40	..	..	..	2.89	..	..
Turkey	0.21 ^{b,y}	0.50 ^{b,y}	0.52 ^{b,y}	0.54 ^{b,y}	0.60 ^{b,y}	0.65 ^{b,y}	0.72 ^{b,y}
United Kingdom	1.70	1.65	1.66	1.75	1.67	1.71	1.75 ^{c,p}
United States	2.77 ⁱ	2.99 ⁱ	2.84 ⁱ	2.87 ⁱ	2.81 ^j	2.88 ^j	..
EU28 (OECD estimates)	1.64 ^b	1.79 ^b	1.80 ^b	1.88 ^b	1.93 ^b	1.94 ^b	1.96 ^b
OECD-Total	2.18^b	2.41^b	2.35^b	2.41^b	2.42^b	2.46^b	2.48^b
Argentina	0.15 ^b	0.17	0.18	0.20	0.20	0.20 ^b	..
China	0.65 ^{a,b,y}	1.57 ^{a,b,y}	1.62 ^{b,y}	1.74 ^{b,y}	1.91 ^{b,y}	2.03 ^{b,y}	2.08 ^{b,y}
Romania	0.35	0.26	0.25	0.25 ^a	0.27	0.17	0.23
Russian Federation	1.03 ^{b,y}	1.11 ^{b,y}	0.96 ^{b,y}	0.94 ^{b,y}	0.94 ^{b,y}	0.98 ^{b,y}	1.02 ^{b,y}
Singapore	1.34 ^b	1.61 ^b	1.49 ^b	1.64 ^b	1.50 ^b	1.47 ^b	..
South Africa	..	0.64 ^b	0.53 ^b	0.51 ^b	0.48 ^b
Chinese Taipei	1.62 ^{b,d}	2.77	2.73	2.86	3.02	3.08	3.12

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 27. Business enterprise researchers in full-time equivalent

FTE

	2000	2009	2010	2011	2012	2013	2014
Australia	16 221	29 509	27 990	32 439	..	39 065	..
Austria	..	21 599	22 799 ^c	23 138	24 900 ^c	25 752	26 122 ^{c,p}
Belgium	16 684	17 872	20 008	21 382	23 464	23 759	23 812
Canada	66 870 ^g	93 360 ^g	94 530 ^g	99 040 ^g	94 000 ^g	89 170 ^{g,p}	..
Chile	..	1 013 ^a	1 298	1 752	2 027	1 430	2 265 ^p
Czech Republic	5 533	12 657	12 661	13 958	15 444	16 766	18 281 ^p
Denmark	..	23 479	22 774	23 927	24 369	23 812	24 193 ^c
Estonia	274	1 313	1 282	1 504	1 421	1 383	1 250 ^p
Finland	19 035 ^u	23 633	22 904	22 949	23 269	22 253	21 369
France	81 012	133 701	143 828	148 439	156 392	161 882	162 724 ^p
Germany	153 120 ^c	183 214	185 815 ^c	190 693	199 623	198 585	204 440 ^{c,p}
Greece	3 234	..	..	4 021 ^a	4 351	4 197	4 938 ^p
Hungary	3 901	8 972	10 274	11 773	13 231	14 317	15 577
Iceland	..	901	..	1 060 ^a	..	735 ^a	..
Ireland	5 631 ^c	7 732	7 884 ^c	8 996	9 756 ^c	10 793	11 246 ^c
Israel ¹	..	..	42 088 ^d	46 452 ^d	53 157 ^d	51 727 ^d	..
Italy	26 099	38 143	38 297	39 808	41 067	43 116	45 966 ^p
Japan	421 363	490 494	490 538	490 920	481 425	485 318	506 134
Korea	71 894 ^g	184 830	202 079	223 513	247 041	253 447	274 638
Luxembourg	1 399	1 371	1 460	1 518	927 ^a	1 001	1 028 ^p
Mexico	..	16 181	10 641	11 652	13 507	14 641	..
Netherlands	20 022	20 477	26 588	33 609 ^a	43 665 ^a	46 838	45 959 ^p
New Zealand	..	4 900	..	5 100	..	6 100	..
Norway	..	12 661 ^u	12 504 ^u	12 867 ^u	13 332 ^u	13 553 ^u	14 466 ^{p,u}
Poland	9 821	9 818	11 730	10 567	15 088	20 606	25 015 ^p
Portugal	2 358 ^c	10 160	10 572	12 198	11 931	10 025 ^a	10 533 ^p
Slovak Republic	2 420	1 646	1 928	2 058	2 482	2 436	2 645
Slovenia	1 380	3 278	3 389	4 510 ^a	4 618	4 664	4 637 ^p
Spain	20 869	46 153	45 377	44 915	44 920	44 714	44 622 ^p
Sweden	..	29 426	30 440 ^c	29 310	30 497 ^c	43 141 ^a	44 433 ^p
Switzerland	16 275	..	..	..	16 595	..	..
Turkey	3 702	21 019	25 342	30 404	35 034	40 207	41 847
United Kingdom	85 737	84 554	84 074	89 043	90 422	98 469	104 484 ^{c,p}
United States	..	874 000	804 000	853 000	869 000	..	..
EU28 (OECD estimates)	522 000 ^b	695 250 ^b	719 666 ^b	747 214 ^b	792 693 ^b	830 714 ^b	856 378 ^b
OECD-Total	1 879 566^b	2 467 244^b	2 438 659^b	2 561 256^b	2 649 015^b	..	..
Argentina	3 234	4 204	4 251	4 429	4 444	4 470	..
China	353 843 ^{a,t}	707 771 ^a	739 891	818 811	872 384	922 682	946 077
Romania	12 690	6 127	5 853	3 518 ^a	4 956	5 333	5 244
Russian Federation	289 868	216 400	211 214	214 744	204 731	205 455	207 593
Singapore	8 632	16 268	16 508	17 432	17 289	18 329	..
South Africa	..	6 059	4 804	4 452	4 556
Chinese Taipei	31 975 ^d	73 903	81 111	87 419	92 279	94 236	97 019

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 28. Business enterprise researchers as a percentage of national total

Percentage

	2000	2009	2010	2011	2012	2013	2014
Australia	24.6	..	27.9 ^b	..	..	..	..
Austria	..	62.3	62.3 ^c	62.3	63.3 ^c	63.7	63.7 ^{c,p}
Belgium	54.6	46.8	49.0	50.1	51.5	51.3	50.8 ^c
Canada	62.0 ^q	62.1 ^q	59.6 ^q	60.0 ^q	58.2 ^q	56.0 ^{q,p}	..
Chile	..	20.8 ^{a,l}	23.9 ^l	28.8	29.8	24.3	29.8 ^p
Czech Republic	39.9	44.0	43.3	45.5	46.5	48.9	50.7 ^p
Denmark	..	63.8	60.8	61.1	60.8	59.1	59.5 ^c
Estonia	10.3	30.4	31.4	33.3	31.0	31.4	29.0 ^p
Finland	54.6 ^u	57.9	55.3	57.4 ^a	57.5	56.8	55.8
France	47.1 ^a	57.0 ^d	59.1 ^a	59.6	60.4	60.8	60.4 ^p
Germany	59.4 ^c	57.7	56.7 ^c	56.3	56.6	56.0	56.8 ^{c,p}
Greece	..	..	..	16.3 ^a	17.5	14.4	16.6 ^p
Hungary	27.1 ^d	44.7	48.1	51.1	55.5	57.2	59.4
Iceland	..	36.0	..	46.9 ^a	..	37.7 ^a	..
Ireland	66.1 ^c	54.5	55.6 ^c	58.9	61.1 ^c	64.1	64.5 ^c
Israel ¹	..	..	..	84.2 ^d	83.7 ^{c,d}	..	..
Italy	39.5	37.5	37.0	37.5	37.1	37.1	38.3 ^p
Japan	65.1	74.8	74.8	74.8	74.5	73.5 ^a	74.1
Korea	66.3 ^q	75.7	76.5	77.4	78.3	78.7	79.5
Luxembourg	85.0	57.2	55.9	53.6	40.1 ^a	40.0	40.3 ^{c,p}
Mexico	..	37.7	28.8	30.0	..	..	..
Netherlands	47.5	43.6	49.5	54.8 ^a	59.6 ^a	61.1	60.8 ^p
New Zealand	..	30.4	..	31.3	..	34.1	..
Norway	..	48.2 ^u	47.3 ^u	47.3 ^u	47.9 ^u	47.9 ^u	49.3 ^{p,u}
Poland	17.8	16.1	18.2	16.5	22.5	28.8	31.8 ^p
Portugal	14.1 ^c	25.5	25.5	27.7	28.1	26.5 ^a	27.4 ^p
Slovak Republic	24.3	12.4	12.7	13.4	16.3	16.5	17.9
Slovenia	31.8	44.0	44.0	51.4 ^a	52.0	53.6	54.1 ^p
Spain	27.2	34.5	33.7	34.5	35.4	36.3	36.5 ^p
Sweden	..	62.2 ^l	61.7 ^{c,l}	60.2 ^l	61.9 ^{c,l}	67.2 ^{a,l}	66.7 ^{l,p}
Switzerland	62.3	..	..	..	46.2	..	..
Turkey	16.0	36.4	39.4	42.2	42.7	45.1	46.7
United Kingdom	50.3 ^b	33.0 ^c	32.8 ^c	35.4	35.3 ^c	36.8	38.2 ^{c,p}
United States	..	69.9 ^b	67.1 ^b	68.1 ^b	68.7 ^b	..	..
EU28 (OECD estimates)	46.7 ^b	44.7 ^b	44.9 ^b	45.9 ^b	47.2 ^b	48.0 ^b	48.6 ^b
OECD-Total	60.0^b	59.7^b	58.6^b	59.6^b	60.0^b	..	..
Argentina	12.2	9.6	8.9	8.8	8.6	8.6	..
China	50.9 ^{a,t}	61.4 ^a	61.1	62.1	62.1	62.2	62.1
Romania	62.0	31.8	29.6	21.9 ^a	27.5	28.7	29.0
Russian Federation	57.2	48.9	47.8	48.0	46.2	46.6	46.7
Singapore	51.9	53.3	51.5	51.7	50.6	50.9	..
South Africa	..	30.6	25.7	22.1	21.3
Chinese Taipei	57.7 ^{d,l}	61.8	63.2	64.9	65.9	66.8	67.9

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Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 29. Business enterprise researchers in full-time equivalent per thousand employment in industry

Per thousand

	2000	2009	2010	2011	2012	2013	2014
Australia	2.4 ^b	3.7 ^b	3.4 ^b	3.9	..	4.7	..
Austria	..	7.0	7.3 ^c	7.3	7.7 ^c	8.0	8.0 ^{c,p}
Belgium	5.7	5.8	6.5	6.9	7.5	7.7	7.7
Canada	5.8 ^g	7.4 ^g	7.4 ^g	7.6 ^g	7.1 ^g	6.7 ^{g,p}	..
Chile	..	0.2 ^{a,b}	0.3	0.3	0.4	0.3	0.4 ^p
Czech Republic	1.4	3.1	3.1	3.4	3.8	4.1	4.5 ^p
Denmark	..	12.5	12.6	13.2	13.5	13.1	13.1 ^c
Estonia	0.6	3.0	3.2	3.4	3.2	3.1	2.8 ^p
Finland	11.5 ^u	13.4	13.1	13.0	13.0	12.6	12.2
France	4.6	7.2	7.8	8.0	8.3	8.7	8.7 ^{b,p}
Germany	5.2 ^c	6.1	6.2 ^c	6.3	6.5	6.4	6.6 ^{c,p}
Greece	0.9	..	..	1.2 ^a	1.4	1.4	1.6 ^p
Hungary	1.2	2.9	3.4	3.8	4.3	4.7	4.8
Iceland	..	7.6	..	8.7 ^a	..	5.9 ^a	..
Ireland	4.1 ^c	5.3	5.7 ^c	6.7	7.3 ^c	7.8	8.0 ^c
Israel ¹	..	..	18.9 ^d	20.4 ^d	22.8 ^d	21.5 ^d	..
Italy	1.5	2.0	2.1	2.1	2.2	2.4	2.6 ^{b,p}
Japan	7.7 ^b	9.3 ^b	9.3 ^b	9.4 ^b	9.2 ^b	9.3 ^b	9.6 ^b
Korea	3.9 ^{b,g}	9.7	10.5	11.4	12.4	12.6	13.4
Luxembourg	6.5	4.9	5.2	5.2	3.1 ^a	3.3	3.4 ^p
Mexico	..	0.5 ^b	0.3	0.3	0.3	0.4	..
Netherlands	3.2	3.2	4.3	5.3 ^a	7.0 ^a	7.5	7.4 ^p
New Zealand	..	3.1	..	3.1	..	3.6	..
Norway	..	7.5 ^u	7.5 ^u	7.6 ^u	7.8 ^u	7.8 ^u	8.2 ^{p,u}
Poland	0.9	0.8	1.0	0.9	1.2	1.7	2.0 ^p
Portugal	0.6 ^c	2.7	2.8	3.3	3.4	3.0 ^a	3.1 ^{b,p}
Slovak Republic	1.6	0.9	1.1	1.2	1.4	1.4	1.5
Slovenia	1.8	4.1	4.3	5.9 ^a	6.1	6.3	6.2 ^p
Spain	1.6	3.0	3.1	3.2	3.3	3.4	3.4 ^p
Sweden	..	10.0	10.2 ^c	9.6	9.9 ^c	13.9 ^a	14.1 ^p
Switzerland	5.1 ^b	..	..	..	4.7	..	..
Turkey	0.2 ^b	1.1	1.3	1.5	1.7	1.8	1.9
United Kingdom	4.1	4.0	4.0	4.2	4.2	4.6	4.8 ^{c,p}
United States	..	8.9	8.3	8.7	8.7	..	..
EU28 (OECD estimates)	3.2 ^b	4.1 ^b	4.3 ^b	4.5 ^b	4.8 ^b	5.0 ^b	5.1 ^b
OECD-Total	4.7^b	6.0^b	5.9^b	6.1^b	6.3^b	..	..
Argentina	..	..	..	..	..	..	..
China	..	..	..	..	..	..	..
Romania	1.3	0.8	0.7	0.4 ^a	0.7	0.7	0.7
Russian Federation	5.8	4.2	4.1	4.0	3.8	3.8	3.8
Singapore	4.5 ^b	6.2	6.1	6.2	5.9	6.0	..
South Africa	..	0.6	0.5	0.5	0.5
Chinese Taipei	3.8 ^{b,d}	8.3	8.9	9.4	9.8	9.9	10.1

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 30. Total business enterprise R&D personnel in full-time equivalent

FTE

	2000	2009	2010	2011	2012	2013	2014
Australia	28 391	57 936	56 511	64 906	..	78 839	..
Austria	..	38 303	40 954 ^c	42 098	45 005 ^c	46 412	47 077 ^{c,p}
Belgium	33 493	32 969	32 692	35 011	38 108	38 497	38 787
Canada	104 710 ^g	155 180 ^g	144 270 ^g	148 930 ^g	139 460 ^g	132 330 ^{g,p}	..
Chile	..	2 945 ^a	3 465	4 141	4 737	3 905	5 110 ^p
Czech Republic	11 527	25 884	26 998	29 509	32 224	33 713	35 777 ^p
Denmark	23 725	37 366	36 324	36 886	35 899	35 487	36 055 ^c
Estonia	417	1 924	1 955	2 121	1 988	2 069	1 808 ^p
Finland	29 384	32 237	30 559	31 180	30 995	30 381	29 634
France	177 688	225 891	235 588	239 111	246 438	251 446	252 250 ^p
Germany	312 490 ^c	332 491	337 211	357 129	367 478	360 375	371 000 ^{c,p}
Greece	9 764	..	..	6 324 ^a	6 532	6 832	7 750 ^p
Hungary	6 471	13 189	14 999	17 220	19 997	22 244	22 177
Iceland	..	1 352	..	1 491 ^a	..	1 247 ^a	..
Ireland	8 724 ^c	11 959	12 194 ^c	14 120	15 313 ^c	17 103	17 821 ^c
Israel ¹	41 144 ^d	50 674 ^d	53 511 ^d	59 790 ^d	64 596 ^d	64 379 ^d	..
Italy	63 998	109 768	112 212	112 478	120 162	124 736	126 947 ^p
Japan	581 721	616 965	614 772	602 252	581 042	583 855	611 027
Korea	87 113 ^g	212 349	230 221	254 280	281 523	288 758	314 019
Luxembourg	3 337	3 318	3 388	3 387	2 843 ^a	2 913	2 976 ^p
Mexico	..	39 635	26 630	28 039	29 708	32 467	..
Netherlands	47 509	42 336	54 139	74 011 ^a	76 767 ^a	77 399	77 133 ^p
New Zealand	..	8 300	..	8 800	..	10 000	..
Norway	..	18 166	17 821	18 111	18 624	19 041	20 703 ^p
Poland	18 586	13 693	18 424	19 530	25 750	30 250	37 318 ^p
Portugal	3 567 ^c	13 922	14 036	16 030	15 668	16 220	16 719 ^p
Slovak Republic	5 172	2 625	3 230	3 251	3 790	3 618	4 133
Slovenia	4 110	6 785	7 056	9 622 ^a	9 451	9 811	9 696 ^p
Spain	47 055	93 699	92 221	89 841	89 364	88 635	86 992 ^p
Sweden	..	55 799	54 797 ^c	54 787	55 839 ^c	56 413	57 307 ^p
Switzerland	36 190	..	..	..	47 750	..	..
Turkey	6 032	31 476	37 522	45 408	52 233	58 391	61 945
United Kingdom	145 499	151 494	154 870	158 385	160 116	177 948	188 818 ^{c,p}
United States	..	..	..	..	..	..	..
EU28 (OECD estimates)	1 049 343 ^b	1 274 589 ^b	1 309 242 ^b	1 371 233 ^b	1 420 001 ^b	1 453 972 ^b	1 491 862 ^b
OECD-Total	..	..	..	..	..	..	..
Argentina	5 736	8 347	8 441	8 794	8 824	8 875	..
China	480 791 ^{a,t}	1 647 454 ^a	1 873 913	2 169 291	2 486 400	2 740 563	2 896 352
Romania	22 541	10 758	8 271	10 002 ^a	10 887	10 514	10 437
Russian Federation	628 858	454 972	444 111	439 683	413 796	424 063	423 134
Singapore	10 246	19 309	19 169	20 406	20 204	21 349	..
South Africa	..	12 025	10 205	9 895	11 322
Chinese Taipei	69 903 ^d	136 301	148 782	159 730	166 683	173 329	180 435

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 31. Total business enterprise R&D personnel as a percentage of national total

Percentage

	2000	2009	2010	2011	2012	2013	2014
Australia	29.7	..	38.2 ^b	..	..	..	..
Austria	..	67.9	68.3 ^c	68.8	69.7 ^c	70.1	70.1 ^{c,p}
Belgium	62.7	55.2	54.4	55.7	56.9	56.7	56.5 ^c
Canada	62.3 ^g	65.5 ^g	61.9 ^g	62.1 ^g	60.3 ^g	58.4 ^{g,p}	..
Chile	..	28.2 ^{a,l}	30.2 ^l	31.7	32.4	29.5	32.1 ^p
Czech Republic	47.6	50.8	51.6	53.0	53.4	54.4	55.5 ^p
Denmark	62.9	66.8	64.1	64.1	62.2	60.9	61.4 ^c
Estonia	11.2	35.4	37.0	37.1	34.0	35.3	31.1 ^p
Finland	55.9	57.5	54.7	57.2 ^a	57.3	57.4	56.8
France	54.3 ^a	57.9 ^d	59.2 ^a	59.4	59.8	60.1	59.7 ^p
Germany	64.5 ^c	62.2	61.5	62.1	62.2	61.2	61.8 ^{c,p}
Greece	..	..	..	17.1 ^a	17.5	16.2	18.0 ^p
Hungary	27.5 ^d	44.3	47.6	50.7	56.0	58.3	59.4
Iceland	..	39.8	..	46.0 ^a	..	45.1 ^a	..
Ireland	68.4 ^c	60.7	61.8 ^c	65.4	67.7 ^c	70.9	71.2 ^c
Israel ¹	..	..	..	84.9 ^d	83.7 ^{c,d}	..	..
Italy	42.6	48.5	49.7	49.3	50.0	50.5	51.5 ^p
Japan	64.9	70.2	70.0	69.2	68.3	67.5 ^a	68.2
Korea	63.1 ^g	68.7	68.7	70.4	71.1	71.9	72.9
Luxembourg	91.1	70.4	68.1	65.2	59.9 ^a	58.6	58.8 ^{c,p}
Mexico	..	..	..	..	..	..	..
Netherlands	52.0	48.2	53.8	63.0 ^a	62.8 ^a	62.8	62.7 ^p
New Zealand	..	35.8	..	37.3	..	40.2	..
Norway	..	50.3	49.3	49.0	49.4	49.4	51.3 ^p
Poland	23.5	18.6	22.5	22.9	28.4	32.3	35.7 ^p
Portugal	16.3 ^c	29.6	29.5	32.3	32.9	34.7	35.4 ^p
Slovak Republic	34.0	16.5	17.8	18.0	20.9	21.1	23.5
Slovenia	48.0	54.7	54.5	63.0 ^a	63.1	64.4	65.2 ^p
Spain	39.0	42.4	41.5	41.8	42.8	43.6	43.6 ^p
Sweden	..	72.1 ^l	70.8 ^{c,l}	69.8 ^l	68.7 ^{c,l}	69.7 ^l	68.7 ^{l,p}
Switzerland	69.2	..	..	..	63.3	..	..
Turkey	22.3 ^l	42.8 ^l	45.9 ^l	48.9 ^l	49.7 ^l	51.7 ^l	53.7 ^l
United Kingdom	50.4 ^b	43.6 ^{c,l}	44.2 ^{c,l}	44.5 ^l	44.9 ^{c,l}	47.2 ^l	48.7 ^{c,l,p}
United States	..	..	..	..	..	..	..
EU28 (OECD estimates)	52.5 ^b	51.3 ^b	51.6 ^b	52.5 ^b	53.2 ^b	53.6 ^b	54.1 ^b
OECD-Total	..	..	..	..	..	..	..
Argentina	15.3	14.0	12.8	12.6	12.3	12.0	..
China	52.1 ^{a,t}	71.9 ^a	73.4	75.2	76.6	77.6	78.1
Romania	66.5	37.9	31.6	33.6 ^a	35.0	32.3	33.2
Russian Federation	62.4	53.8	52.9	52.4	50.0	51.3	51.0
Singapore	52.9	53.8	51.8	52.3	51.2	51.3	..
South Africa	..	38.9	34.6	31.9	32.3
Chinese Taipei	66.8 ^{d,l}	69.0	70.4	71.9	72.7	74.0	75.0

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Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 32. Total business enterprise R&D personnel in full-time equivalent per thousand employment in industry

Per thousand

	2000	2009	2010	2011	2012	2013	2014
Australia	4.1 ^b	7.2 ^b	6.9 ^b	7.9	..	9.4	..
Austria	..	12.3	13.1 ^c	13.2	14.0 ^c	14.4	14.5 ^{c,p}
Belgium	11.5	10.7	10.6	11.2	12.2	12.4	12.5
Canada	9.1 ^g	12.3 ^g	11.2 ^g	11.4 ^g	10.5 ^g	9.9 ^{g,p}	..
Chile	..	0.7 ^{a,b}	0.7	0.8	0.9	0.7	0.9 ^p
Czech Republic	2.9	6.3	6.7	7.3	7.9	8.3	8.7 ^p
Denmark	12.8	19.9	20.1	20.3	19.8	19.6	19.6 ^c
Estonia	0.9	4.4	4.8	4.8	4.5	4.6	4.0 ^p
Finland	17.8	18.3	17.5	17.6	17.3	17.2	16.9
France	10.0	12.2	12.8	12.8	13.1	13.4	13.5 ^{b,p}
Germany	10.6 ^c	11.2	11.3	11.7	11.9	11.6	11.9 ^{c,p}
Greece	2.8	..	..	1.9 ^a	2.1	2.3	2.5 ^p
Hungary	1.9	4.3	4.9	5.6	6.5	7.2	6.9
Iceland	..	11.4	..	12.3 ^a	..	10.0 ^a	..
Ireland	6.4 ^c	8.2	8.9 ^c	10.5	11.5 ^c	12.4	12.7 ^c
Israel ¹	22.7 ^d	23.5 ^d	24.0 ^d	26.3 ^d	27.7 ^d	26.8 ^d	..
Italy	3.7	5.9	6.1	6.1	6.5	6.9	7.0 ^{b,p}
Japan	10.6 ^b	11.7 ^b	11.7 ^b	11.5 ^b	11.1 ^b	11.1 ^b	11.6 ^b
Korea	4.8 ^{b,g}	11.2	12.0	12.9	14.1	14.3	15.3
Luxembourg	15.6	11.9	12.0	11.7	9.6 ^a	9.7	9.7 ^p
Mexico	..	1.1 ^b	0.7	0.7	0.7	0.8	..
Netherlands	7.7	6.7	8.7	11.8 ^a	12.2 ^a	12.5	12.4 ^p
New Zealand	..	5.2	..	5.4	..	5.9	..
Norway	..	10.7	10.7	10.8	10.8	10.9	11.8 ^p
Poland	1.7	1.1	1.5	1.6	2.1	2.5	3.0 ^p
Portugal	0.9 ^c	3.7	3.8	4.4	4.5	4.8	4.9 ^{b,p}
Slovak Republic	3.3	1.5	1.9	1.9	2.2	2.1	2.4
Slovenia	5.4	8.4	9.0	12.6 ^a	12.5	13.2	13.0 ^p
Spain	3.6	6.2	6.3	6.3	6.6	6.8	6.6 ^p
Sweden	..	19.0	18.4 ^c	17.9	18.1 ^c	18.2	18.2 ^p
Switzerland	11.4 ^b	..	..	..	13.5	..	..
Turkey	0.4 ^b	1.7	1.9	2.2	2.5	2.7	2.8
United Kingdom	7.0	7.2	7.4	7.5	7.5	8.3	8.6 ^{c,p}
United States	..	..	..	..	..	..	..
EU28 (OECD estimates)	6.5 ^b	7.6 ^b	7.8 ^b	8.2 ^b	8.5 ^b	8.8 ^b	8.9 ^b
OECD-Total	..	..	..	..	..	..	..
Argentina	..	..	..	..	..	..	..
China	..	..	..	..	..	..	..
Romania	2.3	1.3	1.0	1.3 ^a	1.5	1.4	1.4
Russian Federation	12.6	8.8	8.5	8.3	7.7	7.9	7.8
Singapore	5.4 ^b	7.3	7.0	7.2	6.9	7.0	..
South Africa	..	1.2	1.1	1.0	1.1
Chinese Taipei	8.3 ^{b,d}	15.3	16.4	17.2	17.7	18.2	18.7

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

**Table 33. Industry-financed BERD (Business enterprise expenditure on R&D)
at 2010 prices and PPPs**

Million 2010 USD

	2000	2009	2010	2011	2012	2013	2014
Australia	4 448.7	11 480.6	11 649.4	11 588.7	..	11 698.1	..
Austria	..	4 073.2	..	4 303.8	..	5 101.2	..
Belgium	4 164.0	4 559.8	4 790.7	5 374.9	5 591.5	5 718.9	..
Canada	8 826.2 ^g	11 429.7 ^g	10 953.0 ^g	11 520.0 ^g	11 202.1 ^g	10 491.5 ^g	10 183.6 ^{g,p}
Chile	..	246.9 ^a	228.6	364.5	398.4	445.6	414.1 ^p
Czech Republic	1 119.6	1 385.6	1 497.6	1 651.1	1 808.7	1 978.7	..
Denmark	..	4 282.0	4 094.4 ^c	4 176.7	4 149.5 ^c	4 072.5	4 116.1 ^{c,p}
Estonia	20.7	138.6	185.2	375.7	336.5	222.0	165.7 ^p
Finland	3 813.1	4 910.9	4 903.1	4 980.2	4 337.4	3 986.5	3 369.8
France	21 829.8	25 551.0	26 290.2	27 792.3	28 481.2	28 646.0	..
Germany	45 272.5 ^{c,m}	52 740.2 ^m	54 255.3 ^c	58 001.7	60 178.0 ^c	58 730.8	60 597.4 ^{c,p}
Greece	..	..	..	541.5 ^a	502.8	580.9	592.8 ^p
Hungary	470.2 ^v	991.8	1 047.3	1 139.0	1 198.8	1 355.6	1 437.3
Iceland	..	148.9	..	144.6 ^{a,l}	..	89.3 ^a	..
Ireland	1 016.5 ^c	1 625.5	1 633.1 ^c	1 496.2	1 572.6 ^c	1 677.5	1 745.3 ^c
Israel ¹	3 275.5 ^{a,d}	3 088.0 ^{a,d}	3 028.7 ^d	3 360.6 ^d	3 759.2 ^d	3 560.3 ^d	..
Italy	8 085.6	10 613.8	10 954.8	10 982.5	11 015.6	11 392.2	..
Japan	83 304.5	103 151.2	105 655.2	110 070.4	110 137.5	115 329.6	121 756.9
Korea	14 629.4 ^g	32 116.4	36 313.9	41 926.2	46 928.9	50 387.1	53 691.4
Luxembourg	464.7	483.9	281.0	289.8	94.1 ^a	93.4	..
Mexico	1 283.6	2 396.5	2 788.0	2 725.3	..	..	..
Netherlands	..	4 662.9	..	6 695.3 ^a	6 786.7 ^a	6 802.7	6 990.7 ^p
New Zealand	..	563.1	..	597.1	..	583.8	..
Norway	..	1 960.6	1 899.5	2 025.6	2 088.6	2 100.1	..
Poland	831.9	1 209.4	1 208.0	1 534.5	2 251.5	2 632.6	3 082.9
Portugal	481.7 ^c	1 904.4	1 884.7	1 770.9	1 668.1	1 456.1	..
Slovak Republic	269.1	177.3	248.5	263.5	371.6	435.7	349.5
Slovenia	284.2	549.7	631.9	810.2 ^a	854.9	879.7	890.5 ^p
Spain	4 986.7	8 065.8	7 989.5	8 041.1	7 947.1	7 806.2	..
Sweden	..	7 419.1	..	7 358.0	..	8 022.2	..
Switzerland	5 252.7	..	..	..	7 068.3	..	..
Turkey	1 183.9	2 997.0	3 693.0	4 259.4	4 839.6	5 475.6	6 252.3
United Kingdom	15 008.3	16 414.8	16 034.4	16 955.6	16 278.3	17 444.2	18 496.1 ^{c,p}
United States	226 014.2 ^{i,o}	233 488.3 ^{a,i,o}	229 200.0 ^{i,o}	241 562.6 ^{i,o}	244 647.4 ^{i,o}	258 770.6 ^{i,o}	..
EU28 (OECD estimates)	127 759.1 ^b	153 407.7 ^b	155 657.0 ^b	165 499.4 ^b	168 547.8 ^b	169 957.2 ^b	..
OECD-Total	477 070.1^b	562 618.3^b	568 023.2^b	601 759.1^b	613 124.8^b	637 083.6^b	..
Argentina	446.1 ^c	725.4	843.0	1 016.1	1 003.6	1 007.5	..
China	21 285.6	127 505.4 ^a	145 346.7	170 999.1	199 131.3	225 908.3	249 702.1 ^b
Romania	364.9	454.7	363.5	448.1 ^a	432.6	306.5	345.8
Russian Federation	5 558.0	7 577.9	6 434.4	7 312.0	7 269.9	7 786.8	7 986.3
Singapore	1 983.0	3 427.3	3 756.2	4 422.0	4 074.8	4 130.9	..
South Africa	..	1 895.6	1 647.9	1 653.5	1 634.4
Chinese Taipei	7 065.2	15 720.9	17 539.1	19 154.6	20 349.3	21 611.7	22 931.8

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

**Table 34. Industry-financed BERD (Business enterprise expenditure on R&D)
as a percentage of value added in industry**

Percentage

	2000	2009	2010	2011	2012	2013	2014
Australia	0.97	1.88	1.84	1.77	..	1.74	..
Austria	..	1.82	..	1.83	..	2.16	..
Belgium	1.81	1.78	1.80	1.99	2.08	2.14	..
Canada	1.18 ^{b,g}	1.37 ^g	1.26 ^g	1.28 ^g	1.23 ^g	1.13 ^{b,g}	1.07 ^{b,g,p}
Chile	..	0.12 ^{a,y}	0.10 ^y	0.15 ^y	0.16 ^y	0.18 ^y	0.16 ^{p,y}
Czech Republic	0.76	0.73	0.77	0.83	0.92	1.02	..
Denmark	..	3.33	3.12 ^c	3.14	3.10 ^c	3.05	3.03 ^{c,p}
Estonia	0.15	0.81	1.02	1.87	1.59	1.04	0.76 ^p
Finland	3.48	4.19	4.05	4.07	3.66	3.43	2.92
France	1.74	1.93	1.94	2.01	2.07	2.07	..
Germany	2.36 ^{c,m}	2.72 ^m	2.64 ^c	2.73	2.81 ^c	2.74	2.78 ^{c,p}
Greece	..	..	..	0.35 ^a	0.35	0.41	0.41 ^p
Hungary	0.42 ^v	0.75	0.78	0.82	0.89	0.98	1.00
Iceland	..	1.88	..	1.80 ^{a,l}	..	1.09 ^a	..
Ireland	0.98 ^c	1.23	1.20 ^c	1.05	1.11 ^c	1.17	1.17 ^c
Israel ¹	3.35 ^{a,b,d}	2.45 ^{a,b,d}	2.33 ^{b,d}	2.46 ^{b,d}	2.66 ^{b,d}	2.46 ^{b,d}	..
Italy	0.62	0.85	0.87	0.87	0.90	0.95	..
Japan	3.05 ^{b,y}	3.87 ^{b,y}	3.75 ^{b,y}	3.96 ^{b,y}	3.89 ^{b,y}	4.01 ^{b,y}	4.24 ^{b,y}
Korea	2.16 ^g	3.36	3.51	3.88	4.27	4.45	4.59 ^b
Luxembourg	2.02	1.77	0.95	0.96	0.32 ^a	0.30	..
Mexico	0.12 ^b	0.20	0.22	0.20	..	..	..
Netherlands	..	0.98	..	1.35 ^a	1.37 ^a	1.40	1.43 ^p
New Zealand	..	0.66 ^b	..	0.68 ^b	..	0.63 ^b	..
Norway	..	1.09	1.02	1.03	1.02	1.03	..
Poland	0.22 ^b	0.22	0.22	0.27	0.38	0.43	0.49 ^b
Portugal	0.29 ^c	1.14	1.12	1.07	1.05	0.94	..
Slovak Republic	0.47	0.20	0.26	0.27	0.37	0.44	0.34
Slovenia	0.99	1.51	1.73	2.19 ^a	2.39	2.48	2.40 ^p
Spain	0.59	0.80	0.83	0.84	0.86	0.88	..
Sweden	..	3.31	..	2.94	..	3.21	..
Switzerland	2.19	..	..	..	2.40	..	..
Turkey	0.19 ^{b,y}	0.41 ^{b,y}	0.46 ^{b,y}	0.48 ^{b,y}	0.54 ^{b,y}	0.59 ^{b,y}	0.65 ^{b,y}
United Kingdom	1.18	1.16	1.14	1.20	1.14	1.18	1.21 ^{c,p}
United States	2.53 ^{i,o}	2.44 ^{a,i,o}	2.33 ^{i,o}	2.41 ^{i,o}	2.36 ^{i,o}	2.44 ^{i,o}	..
EU28 (OECD estimates)	1.37 ^b	1.48 ^b	1.48 ^b	1.55 ^b	1.59 ^b	1.60 ^b	..
OECD-Total	1.95^b	2.06^b	2.01^b	2.08^b	2.09^b	2.13^b	..
Argentina	0.13 ^b	0.16	0.17	0.19	0.19	0.19 ^b	..
China	0.56 ^{b,y}	1.46 ^{a,b,y}	1.50 ^{b,y}	1.62 ^{b,y}	1.77 ^{b,y}	1.89 ^{b,y}	1.95 ^{b,y}
Romania	0.22	0.19	0.15	0.19 ^a	0.18	0.12	0.13
Russian Federation	0.42 ^{b,y}	0.38 ^{b,y}	0.31 ^{b,y}	0.34 ^{b,y}	0.33 ^{b,y}	0.35 ^{b,y}	0.36 ^{b,y}
Singapore	1.15 ^b	1.33 ^b	1.27 ^b	1.42 ^b	1.27 ^b	1.24 ^b	..
South Africa	..	0.47 ^b	0.40 ^b	0.39 ^b	0.38 ^b
Chinese Taipei	1.59 ^b	2.71	2.66	2.80	2.96	3.02	3.07

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 35. Percentage of Business enterprise expenditure on R&D (BERD) financed by industry

Percentage

	2000	2009	2010	2011	2012	2013	2014
Australia	91.0	96.9	97.2	96.9 ^v	..	96.2	..
Austria	..	66.6	..	64.8	..	66.7	..
Belgium	82.1	83.5	81.3	83.4	76.5	76.3	..
Canada	69.3 ^g	84.7 ^g	84.5 ^g	86.0 ^g	85.9 ^g	84.9 ^g	84.7 ^{g,p}
Chile	..	81.3 ^a	75.1	92.2	91.5	90.1	88.6 ^p
Czech Republic	80.6	68.2	68.3	66.2	65.8	67.2	..
Denmark	..	87.5	89.6 ^c	89.9	89.9 ^c	88.9	88.9 ^{c,p}
Estonia	75.4	81.0	83.0	85.3	87.0	83.9	80.2 ^p
Finland	95.4	91.9	91.9	92.1	88.8	85.5	76.6
France	81.0	81.9	82.0	83.3	82.9	82.2	..
Germany	90.8 ^{c,m}	92.0 ^m	92.0 ^c	91.4	91.4 ^c	91.4	91.4 ^{c,p}
Greece	..	..	..	78.8 ^a	77.2	81.6	78.9 ^p
Hungary	75.8 ^v	71.0 ^v	70.8 ^v	69.5 ^v	66.6 ^v	63.5 ^v	64.3 ^v
Iceland	..	87.4	..	87.1 ^a	..	63.8 ^a	..
Ireland	89.1 ^c	75.0	75.0 ^c	69.2	69.2 ^c	72.4	72.4 ^c
Israel ¹	64.6 ^{a,d}	43.0 ^{a,d}	42.1 ^d	43.2 ^d	45.5 ^d	42.0 ^d	..
Italy	80.5	80.6	80.7	80.3	79.6	80.6	..
Japan	97.7	98.2	98.2	98.3	98.2	98.1	98.3
Korea	92.8 ^g	92.9	93.1	93.8	93.7	94.2	94.2
Luxembourg	97.5	91.9	64.8	66.8	30.3 ^a	30.0	..
Mexico	90.1	82.2	92.2	91.3	..	..	..
Netherlands	..	80.1	..	82.2 ^a	82.7 ^a	83.8	83.8 ^p
New Zealand	..	80.4	..	76.4	..	74.4	..
Norway	..	78.9	78.1	79.3	79.1	77.0	..
Poland	66.3	83.2	79.2	81.8	81.0	80.8	79.4
Portugal	90.8 ^c	91.2	94.0	91.7	90.7	87.1	..
Slovak Republic	77.9	72.3	72.3	78.4	80.6	81.3	74.6
Slovenia	85.5	83.9	80.1	79.5 ^a	79.0	80.6	85.5 ^p
Spain	86.7	76.3	76.3	78.0	80.4	81.6	..
Sweden	..	82.1	..	81.5	..	86.7	..
Switzerland	91.4	..	..	..	83.2	..	..
Turkey	92.4	82.4	88.0	90.2	89.6	90.2	89.6
United Kingdom	69.7	70.4	68.9	68.7	68.2	69.1	69.1 ^{c,p}
United States	91.4 ^{i,o}	81.7 ^{a,i,o}	82.2 ^{i,o}	83.8 ^{i,o}	84.1 ^{i,o}	84.8 ^{i,o}	..
EU28 (OECD estimates)	83.2 ^b	82.8 ^b	82.4 ^b	82.6 ^b	82.1 ^b	82.2 ^b	..
OECD-Total	89.4^b	85.2^{a,b}	85.5^b	86.4^b	86.3^b	86.5^b	..
Argentina	88.0 ^c	94.6	94.6	94.7	94.7	94.7	..
China	86.4	92.9 ^a	92.7	93.0	93.0	93.2	93.7
Romania	63.1	72.3	62.5	74.4 ^a	66.3	72.3	59.2
Russian Federation	40.9	34.6	32.1	36.0	35.1	35.5	35.1
Singapore	86.1	82.8	85.5	86.9	84.9	84.5	..
South Africa	..	73.1	74.8	77.0	79.5
Chinese Taipei	97.9 ^d	97.7	97.7	98.0	98.0	98.1	98.4

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 36. Percentage of Business enterprise expenditure on R&D (BERD) financed by government

Percentage

	2000	2009	2010	2011	2012	2013	2014
Australia	3.8	2.0	1.7	1.9 ^v	..	2.1	..
Austria	..	11.0	..	13.3	..	12.5	..
Belgium	5.8	6.6	7.8	6.2	12.1	12.3	..
Canada	2.3 ^g	2.8 ^g	3.7 ^g	3.6 ^g	3.8 ^g	4.2 ^g	4.2 ^{g,p}
Chile	..	18.3 ^a	24.7	6.0	6.9	8.3 ^a	9.3 ^p
Czech Republic	14.7	17.1	15.4	15.7	13.7	11.6	10.0 ^p
Denmark	..	2.6 ^o	2.8 ^{c,o}	2.8 ^o	2.8 ^{c,o}	3.5 ^o	3.5 ^{c,o,p}
Estonia	9.0	11.0	11.1	6.8	9.2	10.2	10.3 ^p
Finland	3.5	2.5	2.6	2.8	3.0	2.8	3.0
France	9.9	9.0	8.7	7.5	7.9	8.1	..
Germany	6.9 ^{c,l}	4.5 ^l	4.5 ^c	4.3	4.3 ^c	3.4	3.4 ^{c,p}
Greece	..	..	..	8.0 ^a	8.2	7.0	10.5 ^p
Hungary	6.1 ^v	15.5 ^v	14.0 ^v	14.5 ^v	15.7 ^v	19.0 ^v	16.5 ^v
Iceland	..	0.5	..	7.5 ^a	..	8.2 ^a	..
Ireland	3.3 ^c	4.2	4.2 ^c	5.9	5.9 ^c	6.0	6.0 ^c
Israel ¹	9.8 ^{a,d}	4.5 ^d	4.2 ^d	2.9 ^d	3.3 ^d	3.0 ^d	..
Italy	11.0	6.5	5.9	6.9	7.1	6.4	..
Japan	1.7	1.2	1.2	1.0	1.1	1.1	1.0
Korea	7.0 ^g	6.8	6.7	6.1	6.0	5.5	5.1
Luxembourg	1.6	3.3	.. ^x	.. ^x	.. ^x	.. ^x	..
Mexico	9.3	14.5	7.5	7.8	..	..	..
Netherlands	..	3.7	7.4	3.8 ^a	2.2 ^a	2.0	1.6 ^p
New Zealand	..	8.4	..	12.2	..	11.2	..
Norway	..	9.6	9.9	9.7	10.1	9.3	..
Poland	32.0	12.3	13.8	12.7	11.2	10.0	11.5
Portugal	4.2 ^c	5.5	4.3	4.0	6.9	9.1	..
Slovak Republic	20.6	7.1	10.7	10.4	6.8	5.1	3.9
Slovenia	7.0	11.8	15.6	15.1 ^a	13.8	12.6	7.7 ^p
Spain	7.2	17.1	16.6	14.4	12.6	10.7	..
Sweden	..	5.8	..	5.0	..	6.1	..
Switzerland	2.3	..	..	..	0.8	..	..
Turkey	4.3	15.2	10.4	8.9	9.4	8.6	8.9
United Kingdom	8.8	7.9	8.7	9.3	7.9	8.9	8.9 ^{c,p}
United States	8.6 ⁱ	14.1 ^{h,j}	12.3 ^{h,j}	10.8 ^{h,j}	10.2 ^{h,j}	9.2 ^{h,j}	..
EU28 (OECD estimates)	8.0 ^b	7.1 ^b	7.3 ^b	6.9 ^b	7.1 ^b	6.7 ^b	..
OECD-Total	7.0^b	9.0^b	8.1^b	7.3^b	7.1^b	6.6^b	..
Argentina	8.7 ^c	4.6	4.6	4.6	4.6	4.6	..
China	6.8	4.3 ^a	4.6	4.4	4.6	4.5	4.2
Romania	34.0	20.7	30.1	18.1 ^a	19.6	14.0	19.0
Russian Federation	45.5	57.4	64.2	58.7	60.4	61.5	62.7
Singapore	7.8	8.3	7.1	5.8	6.2	6.6	..
South Africa	..	12.8	8.3	4.8	6.5
Chinese Taipei	2.1 ^d	2.2	2.2	2.0	1.9	1.7	1.5

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 37. Percentage of Business enterprise expenditure on R&D (BERD) financed by other national sources

Percentage

	2000	2009	2010	2011	2012	2013	2014
Australia	0.56	.. ^x	.. ^x	.. ^x	..	0.07	..
Austria	..	0.09	..	0.10	..	0.06	..
Belgium	0.05	0.15	0.01	0.01	0.01	0.01	..
Canada	0.00 ^g	0.00 ^g	0.00 ^g	0.00 ^g	0.00 ^g	0.00 ^g	0.00 ^{g,p}
Chile	..	0.22 ^a	0.13	1.58	1.39	0.05	0.23 ^p
Czech Republic	1.01	0.16	0.10	0.05	0.04	0.08	0.04 ^p
Denmark	..	0.43	0.27 ^c	0.26	0.26 ^c	0.49	0.49 ^{c,p}
Estonia	0.38	0.59	0.11	0.01	0.03	0.11	0.06 ^p
Finland	0.14	0.05	0.02	0.05	0.06	0.06	0.06
France	0.05	0.08	0.10	0.06	0.06	0.09	..
Germany	0.20 ^c	0.09	0.09 ^c	0.26	0.26 ^c	0.20	0.20 ^{c,p}
Greece	..	..	..	0.20 ^a	0.15	0.06	0.04 ^p
Hungary	0.03 ^v	0.14 ^v	0.26 ^v	0.12 ^v	0.05 ^v	0.06 ^v	0.05 ^v
Iceland	..	0.00	..	0.01 ^a	..	0.55 ^a	..
Ireland	0.00 ^c	0.04	0.04 ^c	0.07	0.07 ^c	0.09	0.09 ^c
Israel ¹	0.66 ^{a,d}	0.59 ^d	0.65 ^d	0.65 ^d	0.60 ^d	0.61 ^d	..
Italy	0.33	0.33	0.21	0.30	0.40	0.38	..
Japan	0.07	0.10	0.08	0.11	0.14	0.24	0.17
Korea	0.17 ^g	0.09	0.07	0.06	0.06	0.06	0.05
Luxembourg	..	..	..	..	..	..	..
Mexico	0.07	0.07	0.10	0.25	..	..	..
Netherlands	..	0.20	..	0.76 ^a	0.57 ^a	0.69	0.46 ^p
New Zealand	..	..^x	..	..^x	..	..^x	..
Norway	..	0.02	0.01	0.02	0.01	0.02	..
Poland	0.13	0.07	0.09	0.20	0.13	0.06	0.11
Portugal	0.00 ^c	0.01	0.00	0.01	0.01	0.01	..
Slovak Republic	0.00	0.05	0.03	0.15	0.00	0.00	0.00
Slovenia	0.00	0.00	0.06	0.01 ^a	0.13	0.01	0.05 ^p
Spain	2.33	0.28	0.30	0.22	0.22	0.25	..
Sweden	..	0.22	..	0.34	..	0.27	..
Switzerland	0.51	..	..	..	0.62	..	..
Turkey	1.40	0.18	0.19	0.08	0.21	0.20	0.09
United Kingdom	0.02	0.08	0.03	0.60 ^a	0.22	0.40	0.40 ^{c,p}
United States	.. ⁿ	0.13 ⁱ	0.28 ⁱ	0.13 ⁱ	0.11 ^j	0.08 ^j	..
EU28 (OECD estimates)	0.24 ^b	0.14 ^b	..	0.26 ^b	0.21 ^b	0.22 ^b	..
OECD-Total	0.10^b	0.14^b	0.19^b	0.17^b	0.15^b	0.16^b	..
Argentina	0.00 ^c	..	..	..	..	..	..
China	..	..	..	..	..	..	..
Romania	0.58	0.70	0.37	0.08 ^a	0.16	0.26	0.20
Russian Federation	0.08	0.10	0.16	0.32	0.10	0.13	0.16
Singapore	0.10	0.04	0.05	0.03	0.01	0.01	..
South Africa	..	0.25	2.54	3.31	2.79
Chinese Taipei	0.07 ^d	0.03	0.03	0.02	0.01	0.01	0.01

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 38. Percentage of Business enterprise expenditure on R&D (BERD) financed by abroad

Percentage

	2000	2009	2010	2011	2012	2013	2014
Australia	4.7	1.0	0.9	1.2 ^v	..	1.6	..
Austria	..	22.3	..	21.9	..	20.7	..
Belgium	12.0	9.8	10.9	10.4	11.4	11.4	..
Canada	28.4 ^g	12.5 ^g	11.7 ^g	10.4 ^g	10.3 ^g	10.9 ^g	11.1 ^{g,p}
Chile	..	0.2 ^a	0.1	0.2	0.1	1.5 ^a	1.9 ^p
Czech Republic	3.6	14.5	16.2	18.1	20.5	21.2	..
Denmark	..	9.4	7.3 ^c	7.1	7.1 ^c	7.1	7.1 ^{c,p}
Estonia	15.2	7.4	5.7	7.9	3.8	5.7	9.4 ^p
Finland	1.0	5.6	5.5	5.0	8.1	11.7	20.4
France	9.0	9.1	9.2	9.1	9.1	9.6	..
Germany	2.1 ^c	3.4	3.4 ^c	4.0	4.0 ^c	5.0	5.0 ^{c,p}
Greece	..	..	..	13.0 ^a	14.4	11.4	10.6 ^p
Hungary	17.2 ^v	13.4 ^v	15.0 ^v	15.9 ^v	17.7 ^v	17.4 ^v	19.2 ^v
Iceland	..	12.1	..	5.4 ^a	..	27.5 ^a	..
Ireland	7.6 ^c	20.8	20.8 ^c	24.8	24.8 ^c	21.5	21.5 ^c
Israel ¹	24.9 ^{a,d}	51.9 ^{a,d}	53.0 ^d	53.2 ^d	50.6 ^d	54.4 ^d	..
Italy	8.2	12.6	13.2	12.5	13.0	12.6	..
Japan	0.6	0.5	0.5	0.6	0.5	0.6	0.5
Korea	0.0 ^g	0.2	0.2	0.1	0.3	0.2	0.6
Luxembourg	0.9	4.9	.. ^x	.. ^x	.. ^x	.. ^x	..
Mexico	0.5	3.2	0.2	0.7	..	..	..
Netherlands	15.4	15.9	..	13.2 ^a	14.5 ^a	13.5	14.2 ^p
New Zealand	..	8.5	..	8.9	..	11.6	..
Norway	..	11.5	12.0	10.9	10.7	13.7	..
Poland	1.6	4.5	6.9	5.3	7.6	9.2	9.0
Portugal	5.0 ^c	3.3	1.7	4.3	2.4	3.8	..
Slovak Republic	1.6	20.6	17.0	11.1	12.7	13.6	21.5
Slovenia	7.5	4.4	4.2	5.4 ^a	7.0	6.8	6.8 ^p
Spain	3.7	6.3	6.8	7.4	6.8	7.5	..
Sweden	..	12.0	..	13.1	..	6.9	..
Switzerland	5.8	..	..	..	15.4	..	..
Turkey	1.9	2.3	1.3	0.8	0.8	1.0	1.4
United Kingdom	21.5	21.6	22.4	21.4	23.7	21.5	21.5 ^{c,p}
United States	.. ⁿ	4.1 ^{a,j,o}	5.2 ^{i,o}	5.3 ^{i,o}	5.6 ^{i,o}	6.0 ^{i,o}	..
EU28 (OECD estimates)	8.6 ^b	9.9 ^b	10.1 ^b	10.2 ^b	10.5 ^b	10.8 ^b	..
OECD-Total	..	5.7^b	6.1^b	6.2^b	6.4^b	6.7^b	..
Argentina	3.3 ^c	0.8	0.8	0.8	0.8	0.8	..
China	4.0	1.6 ^a	1.6	1.6	1.1	1.0	0.9
Romania	2.4	6.3	7.0	7.4 ^a	14.0	13.4	21.6
Russian Federation	13.6	7.9	3.5	5.0	4.4	2.9	2.1
Singapore	6.0	8.9	7.3	7.3	8.8	8.9	..
South Africa	..	13.8	14.3	14.9	11.3
Chinese Taipei	0.0 ^d	0.0	0.0	0.0	0.1	0.1	0.1

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

**Table 39. Business enterprise expenditure on R&D (BERD)
performed in the pharmaceutical industry at current prices and PPPs**

Million USD

	2000	2009	2010	2011	2012	2013	2014
Australia	149.7 ^b	266.3 ^b	252.0 ^b	267.2 ^b	..	..	..
Austria	156.6 ^b	228.0 ^b	202.5 ^b	203.8 ^b	267.6 ^b	354.5 ^b	..
Belgium	660.8 ^b	1 523.6 ^b	1 702.0 ^b	2 048.7 ^b	2 652.9 ^b	2 811.7 ^b	..
Canada	622.4 ^{b,g}	557.8 ^{b,g}	547.6 ^{b,g}	417.8 ^{b,g}	364.0 ^{b,g}	331.6 ^{b,g}	349.6 ^{b,g}
Chile	..	..	..	..	..	..	..
Czech Republic	26.6 ^b	85.6 ^b	75.6 ^b	80.3 ^b	83.4 ^b	76.2 ^b	..
Denmark	..	835.7 ^b	911.5 ^b	876.7 ^b	1 059.5 ^b	1 115.3 ^b	..
Estonia	..	..	0.4 ^b	6.1 ^b	1.7 ^b	1.9 ^b	..
Finland	..	121.0 ^b	115.7 ^b	128.7 ^b	149.5 ^b	131.3 ^b	..
France	2 509.3 ^b	3 937.8 ^b	3 762.7 ^b	3 720.0 ^b	3 691.7 ^b	3 801.2 ^b	..
Germany	2 318.6 ^b	4 813.4 ^b	4 694.9 ^b	5 189.9 ^b	5 208.6 ^b	5 242.4 ^b	..
Greece	..	..	..	86.1 ^b	..	95.6 ^b	..
Hungary	159.7 ^b	420.8 ^b	445.4 ^b	432.2 ^b	487.6 ^b	474.6 ^b	..
Iceland	4.3 ^b	42.5 ^b	..	36.0 ^{a,b}	..	10.8 ^b	..
Ireland	..	269.0 ^b	279.5 ^b	152.9 ^b	..	200.9 ^b	..
Israel ¹	..	..	313.6 ^{b,d}	283.2 ^{b,d}	286.2 ^{b,d}	374.9 ^{b,d}	..
Italy	630.1 ^b	684.4 ^b	714.6 ^b	752.4 ^b	764.4 ^b	729.6 ^b	..
Japan	4 815.2 ^b	10 335.0 ^b	11 430.3 ^b	11 446.1 ^b	12 526.0 ^b	13 986.9 ^b	14 280.0 ^b
Korea	184.8 ^b	836.3 ^b	877.9 ^b	1 010.1 ^b	1 221.9 ^b	1 242.5 ^b	1 272.4 ^b
Luxembourg	..	..	..	..	..	..	..
Mexico	29.5 ^b	197.0 ^b	462.5 ^b	538.5 ^b	..	..	..
Netherlands	..	484.8 ^b	450.0 ^b	387.2 ^b	316.2 ^b	301.6 ^b	..
New Zealand	..	..	..	..	..	..	..
Norway	59.0 ^b	52.7 ^b	56.2 ^b	81.8 ^b	45.3 ^b	44.4 ^b	..
Poland	..	85.4 ^b	85.4 ^b	91.5 ^b	142.8 ^b	121.7 ^b	..
Portugal	..	107.3 ^b	123.3 ^b	141.2 ^b	151.6 ^b	145.1 ^b	..
Slovak Republic	..	..	22.0 ^b	24.7 ^b	18.3 ^b	4.2 ^b	8.6 ^b
Slovenia	69.9 ^b	209.8 ^b	250.4 ^b	260.7 ^b	268.5 ^b	269.1 ^b	..
Spain	357.9 ^b	1 084.3 ^b	1 008.3 ^b	1 039.0 ^b	971.8 ^b	1 027.9 ^b	..
Sweden	..	708.6 ^b	759.1 ^b	875.6 ^b	828.6 ^b	798.9 ^b	..
Switzerland	990.8 ^b	..	..	..	2 785.4 ^b	..	..
Turkey	..	100.6 ^b	98.0 ^b	195.8 ^b	186.6 ^b	194.8 ^b	188.4 ^b
United Kingdom	4 476.1 ^b	6 755.9 ^b	6 709.0 ^b	6 931.8 ^b	6 044.6 ^b	5 899.3 ^b	..
United States	12 793.0 ^{b,i}	44 936.0 ^{b,i}	49 415.0 ^{b,i}	45 949.0 ^{b,i}	48 146.0 ^{b,i}	52 426.0 ^{b,i}	..
EU28 (OECD estimates)	..	..	..	..	..	..	..
OECD-Total	..	..	..	..	..	..	..
Argentina	..	..	..	..	..	..	..
China	865.5 ^b	4 295.9 ^b	5 034.7 ^b	6 026.1 ^b	8 034.5 ^b	9 787.7 ^b	11 057.6 ^b
Romania	..	6.0 ^b	7.8 ^b	23.9 ^b	25.4 ^b	23.8 ^b	..
Russian Federation	..	..	..	..	..	..	..
Singapore	22.4 ^b	85.9 ^b	120.9 ^b	131.8 ^b	152.1 ^b	141.0 ^b	..
South Africa
Chinese Taipei	73.0 ^b	223.0 ^b	260.8 ^b	327.3 ^b	349.9 ^b	394.7 ^b	487.4 ^b

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, ANBERD database: Research and Development Expenditure in Industry, January 2016

**Table 40. Business enterprise expenditure on R&D (BERD)
performed in the computer, electronic and optical industry at current prices and PPPs**

Million USD

	2000	2009	2010	2011	2012	2013	2014
Australia	198.3 ^b	254.9 ^b	248.8 ^b	237.9 ^b	..	..	..
Austria	750.4 ^b	624.2 ^b	673.6 ^b	627.0 ^b	682.1 ^b	766.5 ^b	..
Belgium	864.4 ^b	639.7 ^b	509.3 ^b	536.3 ^b	637.4 ^b	677.2 ^b	..
Canada	3 719.4 ^{b,g}	2 118.2 ^{b,g}	1 741.2 ^{b,g}	1 980.8 ^{b,g}	2 012.7 ^{b,g}	1 825.6 ^{b,g}	1 818.5 ^{b,g}
Chile	..	..	..	..	..	..	..
Czech Republic	25.8 ^b	94.8 ^b	85.4 ^b	85.8 ^b	92.1 ^b	117.9 ^b	..
Denmark	..	333.5 ^b	327.4 ^b	320.0 ^b	371.1 ^b	387.5 ^b	..
Estonia	..	5.8 ^b	5.5 ^b	5.6 ^b	4.4 ^b	4.9 ^b	..
Finland	1 611.4 ^b	2 917.3 ^b	2 839.4 ^b	2 764.9 ^b	2 088.1 ^b	1 950.6 ^b	..
France	4 249.2 ^b	4 586.5 ^b	4 541.2 ^b	4 570.1 ^b	4 758.6 ^b	5 018.5 ^b	..
Germany	5 526.7 ^b	7 184.8 ^b	7 531.9 ^b	8 370.0 ^b	9 408.8 ^b	9 445.4 ^b	..
Greece	..	..	..	32.9 ^b	..	23.8 ^b	..
Hungary	48.0 ^b	125.7 ^b	116.9 ^b	148.6 ^b	127.8 ^b	128.2 ^b	..
Iceland	5.4 ^b	20.5 ^b	..	1.6 ^{a,b}	..	..	..
Ireland	..	173.6 ^b	180.4 ^b	183.6 ^b	..	..	..
Israel ¹	1 487.7 ^{b,d}	1 238.4 ^{b,d}	1 407.2 ^{b,d}	1 559.4 ^{b,d}	1 497.9 ^{b,d}	1 487.4 ^{b,d}	..
Italy	1 630.8 ^b	1 632.1 ^b	1 768.6 ^b	1 877.8 ^b	1 811.8 ^b	1 736.9 ^b	..
Japan	..	27 326.9 ^b	26 266.8 ^b	29 244.8 ^b	28 387.1 ^b	28 347.7 ^b	27 572.8 ^b
Korea	6 093.4 ^b	16 252.0 ^b	19 631.5 ^b	21 873.9 ^b	25 237.8 ^b	27 602.6 ^b	30 055.6 ^b
Luxembourg	..	..	..	..	..	..	..
Mexico	4.3 ^b	61.7 ^b	24.1 ^b	27.6 ^b	..	..	..
Netherlands	..	472.9 ^b	660.9 ^b	702.0 ^b	738.4 ^b	808.5 ^b	..
New Zealand	..	..	..	..	..	..	..
Norway	189.1 ^b	213.7 ^b	173.8 ^b	190.6 ^b	188.1 ^b	186.6 ^b	..
Poland	..	48.4 ^b	83.6 ^b	72.9 ^b	88.2 ^b	83.8 ^b	..
Portugal	28.6 ^b	33.0 ^b	30.7 ^b	42.7 ^b	44.1 ^b	41.0 ^b	..
Slovak Republic	..	2.2 ^b	4.5 ^b	5.4 ^b	7.0 ^b	7.7 ^b	7.1 ^b
Slovenia	55.9 ^b	68.8 ^b	68.8 ^b	76.5 ^b	79.3 ^b	96.5 ^b	..
Spain	441.2 ^b	347.3 ^b	340.8 ^b	307.7 ^b	268.2 ^b	269.1 ^b	..
Sweden	..	2 085.2 ^b	2 028.7 ^b	2 146.9 ^b	2 057.7 ^b	2 012.0 ^b	..
Switzerland	491.6 ^b	..	..	..	1 514.8 ^b	..	..
Turkey	187.2 ^b	491.7 ^b	130.2 ^b	149.7 ^b	195.4 ^b	261.6 ^b	225.2 ^b
United Kingdom	2 542.6 ^b	1 907.4 ^b	1 758.0 ^b	1 836.6 ^b	2 123.0 ^b	2 307.8 ^b	..
United States	51 761.5 ^{b,i}	56 435.0 ^{b,i}	59 875.0 ^{b,i}	62 704.0 ^{b,i}	65 068.0 ^{b,i}	67 205.0 ^{b,i}	..
EU28 (OECD estimates)	..	..	..	..	..	..	..
OECD-Total	..	..	..	..	..	..	..
Argentina	..	..	..	..	..	..	..
China	4 428.5 ^b	21 575.1 ^b	25 186.3 ^b	30 292.6 ^b	33 703.6 ^b	39 465.1 ^b	44 238.5 ^b
Romania	..	14.1 ^b	13.4 ^b	13.2 ^b	57.5 ^b	38.0 ^b	..
Russian Federation	..	..	..	..	..	..	..
Singapore	997.6 ^b	1 797.3 ^b	1 806.8 ^b	1 644.2 ^b	2 042.8 ^b	1 782.8 ^b	..
South Africa	..	..	..	..	..	..	..
Chinese Taipei	3 513.6 ^b	11 380.6 ^b	12 826.8 ^b	14 473.2 ^b	15 594.4 ^b	16 838.9 ^b	18 185.2 ^b

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, ANBERD database: Research and Development Expenditure in Industry, January 2016

**Table 41. Business enterprise expenditure on R&D (BERD)
performed in the aerospace industry at current prices and PPPs**

Million USD

	2000	2009	2010	2011	2012	2013	2014
Australia	2.4 ^b	45.5 ^b	36.8 ^b	23.6 ^b	..	..	..
Austria	7.6 ^b	48.6 ^b	51.0 ^b	44.5 ^b	44.2 ^b	45.6 ^b	..
Belgium	46.1 ^b	105.4 ^b	113.0 ^b	141.5 ^b	155.8 ^b	180.5 ^b	..
Canada	719.4 ^{b,g}	920.3 ^{b,g}	1 006.7 ^{b,g}	1 060.6 ^{b,g}	1 168.2 ^{b,g}	1 294.1 ^{b,g}	1 238.6 ^{b,g}
Chile	..	..	..	..	..	..	..
Czech Republic	21.1 ^b	23.3 ^b	31.4 ^b	37.6 ^b	45.4 ^b	53.5 ^b	..
Denmark	..	..	..	..	..	..	..
Estonia	..	0.0 ^b	0.0 ^b	0.0 ^b	0.0 ^b	0.0 ^b	..
Finland	..	..	..	..	..	..	..
France	1 996.1 ^b	2 956.4 ^b	3 064.7 ^b	3 398.1 ^b	3 787.7 ^b	4 285.1 ^b	..
Germany	2 166.9 ^b	2 356.1 ^b	2 922.5 ^b	2 937.8 ^b	3 025.7 ^b	2 261.0 ^b	..
Greece	..	..	..	..	..	..	..
Hungary	..	..	..	..	..	..	..
Iceland	0.0 ^b	..	..	0.0 ^b	..	..	..
Ireland	..	..	..	..	..	..	..
Israel ¹	..	..	..	..	..	..	..
Italy	762.2 ^b	1 168.6 ^b	1 207.7 ^b	1 226.5 ^b	1 204.4 ^b	1 108.3 ^b	..
Japan	..	173.5 ^b	192.1 ^b	238.0 ^b	310.3 ^b	474.7 ^b	470.1 ^b
Korea	402.7 ^b	83.7 ^b	83.6 ^b	91.2 ^b	185.7 ^b	142.2 ^b	85.6 ^b
Luxembourg	..	..	..	..	..	..	..
Mexico	0.3 ^b	20.5 ^b	16.9 ^b	20.3 ^b	..	..	..
Netherlands	..	15.4 ^b	44.8 ^b	35.9 ^b	53.6 ^b	58.4 ^b	..
New Zealand	..	..	..	..	..	..	..
Norway	..	3.0 ^b	2.7 ^b	..	..	..	..
Poland	..	30.3 ^b	51.4 ^b	73.4 ^b	74.6 ^b	91.3 ^b	..
Portugal	..	..	..	..	..	..	..
Slovak Republic	..	..	..	..	..	..	..
Slovenia	0.0 ^b	1.7 ^b	2.3 ^b	2.3 ^b	1.0 ^b	3.9 ^b	..
Spain	252.2 ^b	489.6 ^b	625.0 ^b	791.1 ^b	715.5 ^b	713.4 ^b	..
Sweden	..	..	..	..	..	..	..
Switzerland	..	..	..	..	..	..	..
Turkey	..	..	..	..	..	..	..
United Kingdom	1 716.2 ^b	2 237.6 ^b	2 036.4 ^b	2 025.5 ^b	2 181.0 ^b	2 393.7 ^b	..
United States	10 319.0 ^{b,j}	34 554.0 ^{b,j}	29 854.0 ^{b,j}	26 054.0 ^{b,j}	24 817.0 ^{b,j}	27 114.0 ^{b,j}	..
EU28 (OECD estimates)	..	..	..	..	..	..	..
OECD-Total	..	..	..	..	..	..	..
Argentina	..	..	..	..	..	..	..
China	460.6 ^b	..	..	..	..	..	..
Romania	..	..	1.4 ^b	4.1 ^b	5.8 ^b	5.3 ^b	..
Russian Federation
Singapore	14.3 ^b	47.9 ^b	105.1 ^b	63.3 ^b
South Africa
Chinese Taipei

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, ANBERD database: Research and Development Expenditure in Industry, January 2016

Table 42. Business enterprise expenditure on R&D (BERD) performed in service industries at current prices and PPPs

Million USD

	2000	2009	2010	2011	2012	2013	2014
Australia	1 670.3 ^b	5 074.1 ^b	5 144.3 ^b	5 512.0 ^b	..	..	..
Austria	759.2 ^b	1 906.0 ^b	2 186.7 ^b	2 383.6 ^b	2 775.3 ^b	3 123.1 ^b	..
Belgium	637.5 ^b	1 266.9 ^b	1 283.5 ^b	1 406.6 ^b	1 443.2 ^b	1 538.7 ^b	..
Canada	2 772.4 ^{b,g}	5 699.5 ^{b,g}	5 757.3 ^{b,g}	6 128.7 ^{b,g}	6 005.9 ^{b,g}	5 997.6 ^{b,g}	5 883.0 ^{b,g}
Chile	..	193.1 ^b	196.5 ^b	181.2 ^b	196.5 ^b	210.1 ^{a,b}	218.4 ^b
Czech Republic	349.0 ^b	860.4 ^b	915.8 ^b	1 086.7 ^b	1 251.7 ^b	1 317.1 ^b	..
Denmark	..	2 267.5 ^b	2 128.0 ^b	2 240.7 ^b	2 103.5 ^b	2 313.1 ^b	..
Estonia	..	127.6 ^b	134.5 ^b	143.5 ^b	197.1 ^b	178.2 ^b	..
Finland	538.6 ^b	961.6 ^b	963.1 ^b	1 162.1 ^b	1 301.8 ^b	1 329.8 ^b	..
France	2 196.7 ^b	4 908.6 ^b	6 032.4 ^b	6 447.6 ^b	7 107.9 ^b	8 012.1 ^b	..
Germany	3 063.5 ^b	7 577.8 ^b	7 866.1 ^b	8 856.0 ^b	8 975.1 ^b	9 095.4 ^b	..
Greece	..	..	..	402.5 ^b	..	492.3 ^b	..
Hungary	80.7 ^b	389.8 ^b	475.0 ^b	591.2 ^b	641.6 ^b	904.3 ^b	..
Iceland	95.7 ^b	106.1 ^b	..	91.0 ^{a,b}	..	..	..
Ireland	..	..	..	..	..	..	..
Israel ¹	2 938.7 ^{b,d}	4 849.9 ^{b,d}	4 980.8 ^{b,d}	5 506.0 ^{b,d}	6 340.3 ^{b,d}	6 823.4 ^{b,d}	..
Italy	1 613.9 ^b	3 684.9 ^b	3 672.3 ^b	3 562.3 ^b	3 611.5 ^b	4 106.8 ^b	..
Japan	4 698.4 ^b	11 664.3 ^b	12 084.1 ^b	12 264.2 ^b	12 445.6 ^b	12 307.7 ^b	16 041.0 ^b
Korea	1 462.6 ^b	3 217.6 ^b	3 522.9 ^b	3 955.3 ^b	4 418.3 ^b	4 519.3 ^b	4 668.4 ^b
Luxembourg	..	..	..	..	..	..	..
Mexico	463.5 ^b	613.7 ^b	1 275.7 ^b	1 251.5 ^b	..	..	..
Netherlands	..	..	..	3 174.1 ^b	3 215.0 ^b	3 244.9 ^b	..
New Zealand	..	329.3 ^b	..	358.0 ^b	..	447.9 ^b	..
Norway	509.4 ^b	1 025.9 ^b	1 113.0 ^b	1 232.4 ^b	1 267.8 ^b	1 331.5 ^b	..
Poland	..	542.4 ^b	721.1 ^b	911.8 ^b	1 320.1 ^b	1 633.2 ^b	..
Portugal	167.7 ^b	1 252.9 ^b	1 240.6 ^b	1 214.4 ^b	1 096.2 ^b	1 064.0 ^b	..
Slovak Republic	147.6 ^b	76.5 ^b	102.5 ^b	126.9 ^b	213.9 ^b	237.9 ^b	..
Slovenia	54.2 ^b	106.0 ^b	139.7 ^b	274.0 ^b	321.3 ^b	308.4 ^b	..
Spain	1 025.9 ^b	4 193.9 ^b	3 967.0 ^b	3 839.2 ^b	3 838.7 ^b	3 843.1 ^b	..
Sweden	..	2 138.8 ^b	2 227.7 ^b	2 509.8 ^b	2 627.1 ^b	2 804.1 ^b	..
Switzerland	905.8 ^b	..	..	..	2 952.5 ^b	..	..
Turkey	120.9 ^b	1 284.7 ^b	1 972.1 ^b	2 187.4 ^b	2 596.5 ^b	3 062.0 ^b	3 530.3 ^b
United Kingdom	2 995.3 ^b	5 728.6 ^b	5 986.0 ^b	6 345.0 ^b	6 248.3 ^b	7 327.4 ^b	..
United States	73 729.6 ^{b,i}	84 181.3 ^{b,i}	78 220.0 ^{b,i}	88 873.0 ^{b,i}	90 128.0 ^{b,i}	96 346.0 ^{b,i}	..
EU28 (OECD estimates)	..	..	..	..	..	..	..
OECD-Total	..	..	..	..	..	..	..
Argentina	..	..	..	..	..	..	..
China	1 300.7 ^b	10 415.7 ^b	9 828.0 ^b	12 049.6 ^b	14 108.0 ^b	..	..
Romania	8.6 ^b	203.3 ^b	185.6 ^b	288.9 ^b	384.1 ^b	202.3 ^b	..
Russian Federation	..	..	..	..	..	..	..
Singapore	352.3 ^b	1 558.2 ^b	1 697.1 ^b	2 710.4 ^b	1 970.3 ^b	2 173.1 ^b	..
South Africa	..	1 141.7 ^b
Chinese Taipei	438.1 ^b	1 195.8 ^b	1 364.2 ^b	1 455.0 ^b	1 768.1 ^b	1 959.5 ^b	2 071.8 ^b

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, ANBERD database: Research and Development Expenditure in Industry, January 2016

Table 43. Higher education expenditure on R&D (HERD) at current prices and PPPs

Million USD

	2000	2009	2010	2011	2012	2013	2014
Australia	2 132.9	..	5 430.6	5 880.0 ^v	6 239.6	6 840.5 ^c	..
Austria	..	2 311.4	2 478.7 ^c	2 534.6	2 754.5 ^c	2 898.7	2 959.2
Belgium	1 127.9	1 913.6	2 062.5	2 173.6	2 261.6	2 435.6	2 430.5 ^c
Canada	4 719.5	8 993.2	9 221.6	9 542.7	10 407.3 ^a	10 460.8	10 430.9 ^p
Chile	..	383.7	396.0	399.3	464.5	578.8	578.3 ^p
Czech Republic	264.9	720.8	761.3	1 141.1	1 485.1	1 642.4	1 666.1 ^p
Denmark	686.0	1 861.7	2 066.5	2 210.1	2 349.2	2 606.9	2 633.2 ^{c,p}
Estonia	42.7	158.6	169.1	204.1	232.9	259.7	235.3
Finland	793.6	1 420.0	1 565.3	1 577.4	1 615.9	1 575.3	1 612.7
France	6 182.4 ^a	10 347.5	10 954.6	11 191.5	11 420.2	12 077.3	12 099.7 ^p
Germany	8 426.5	14 666.9	15 995.9	17 238.3	17 794.4	18 399.3	18 478.5 ^{c,p}
Greece	..	..	..	799.1 ^a	801.9	892.1	922.3 ^p
Hungary	234.7 ^v	498.7 ^v	493.1 ^v	544.2 ^v	526.7 ^v	478.2 ^v	457.5 ^v
Iceland	35.2 ^c	84.9	82.3 ^a	83.0 ^a	..	91.7 ^a	96.1
Ireland	247.6	817.0 ^c	841.0	810.5 ^c	773.6	738.3 ^c	760.4 ^c
Israel ¹	958.8 ^{d,g}	1 132.2 ^d	1 187.1 ^d	1 230.0 ^d	1 337.7 ^d	1 397.0 ^d	1 427.5 ^d
Italy	4 731.2	7 455.5	7 242.9	7 374.4	7 615.4	7 960.2	7 466.2 ^p
Japan	14 348.1	18 366.0	18 099.5	19 603.5	20 344.9	21 861.4 ^a	20 988.0
Korea	2 090.2 ^g	5 097.5	5 645.5	5 890.4	6 172.7	6 289.0	6 539.0
Luxembourg	1.0	54.8	81.5	75.4	104.8	125.9	127.4 ^{c,p}
Mexico	950.7	2 047.9	2 186.0	2 330.0	..	..	..
Netherlands	2 894.5	4 967.6	5 177.4	4 810.7	4 768.9	5 063.6	5 187.7 ^p
New Zealand	..	545.6	..	562.6	..	579.0	..
Norway	..	1 498.0	1 535.4	1 587.0	1 664.6	1 768.4	1 789.2 ^p
Poland	821.6	1 802.5	2 129.9	2 244.7	2 725.2	2 374.1	2 633.5
Portugal	496.8 ^c	1 600.4	1 609.6	1 507.2	1 432.9	1 729.5 ^a	1 748.3 ^p
Slovak Republic	36.6	148.2	225.7	315.8	388.0	406.4	468.1
Slovenia	80.1	148.4	161.9	167.3 ^a	168.2	162.6	156.4 ^p
Spain	2 308.0	5 719.0	5 751.6	5 685.0	5 371.9	5 415.3	5 413.4 ^p
Sweden	..	3 132.5	3 318.2 ^c	3 529.4	3 763.6 ^c	3 882.7	4 021.9 ^p
Switzerland	1 318.2	..	2 937.0	..	3 819.9	..	..
Turkey	1 704.9	4 204.1	4 536.3	5 114.9	5 588.9	5 771.9	6 133.3
United Kingdom	5 737.0	11 016.6	10 322.0	10 185.7	10 364.1	11 027.9	11 542.4 ^{c,p}
United States	30 693.0 ⁱ	56 972.0 ⁱ	60 374.0 ⁱ	62 446.0 ⁱ	63 284.0 ⁱ	64 680.0 ^{i,p}	..
EU28 (OECD estimates)	39 124.3 ^b	72 665.1 ^b	75 223.8 ^b	77 519.3 ^b	79 903.4 ^b	83 328.2 ^b	84 202.0 ^b
OECD-Total	98 829.9^b	178 846.4^b	186 341.9^b	194 317.8^b	201 243.8^b	209 579.2^b	210 877.3^b
Argentina	533.3	1 067.9	1 184.2	1 405.7	1 616.7	1 685.5	..
China	2 831.1	14 949.3	18 052.8	19 650.4	22 136.6	24 119.4	25 444.4
Romania	55.2	369.4	371.6	394.7 ^a	342.9	286.5	229.1 ^b
Russian Federation	477.9	2 471.0	2 764.1	3 178.6	3 523.7	3 297.4	3 898.7
Singapore	718.2	1 795.0	2 079.1	2 314.3	2 375.4	2 539.8	..
South Africa	..	1 173.2	1 187.4	1 384.4	1 482.0
Chinese Taipei	1 117.3	2 883.5	3 037.1	3 241.0	3 277.3	3 291.7	3 228.3

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Source: OECD, Main Science and Technology Indicators Database, January 2016.

**Table 44. Higher education expenditure on R&D (HERD)
as a percentage of GDP**

Percentage

	2000	2009	2010	2011	2012	2013	2014
Australia	0.40	..	0.58	0.60 ^v	0.63	0.63 ^c	..
Austria	..	0.68	0.71 ^c	0.69	0.71 ^c	0.72	0.73
Belgium	0.39	0.47	0.48	0.48	0.48	0.51	0.50 ^c
Canada	0.53	0.69	0.68	0.67	0.71 ^a	0.67	0.65 ^p
Chile	..	0.14 ^y	0.13 ^y	0.11 ^y	0.13 ^y	0.15 ^y	0.15 ^{p,y}
Czech Republic	0.16	0.26	0.27	0.38	0.49	0.52	0.51 ^p
Denmark	0.43	0.85	0.89	0.92	0.95	1.02	1.01 ^{c,p}
Estonia	0.31	0.59	0.60	0.64	0.68	0.73	0.64
Finland	0.58	0.71	0.76	0.73	0.74	0.71	0.73
France	0.39 ^a	0.46	0.47	0.46	0.46	0.47	0.46 ^p
Germany	0.38	0.48	0.49	0.50	0.51	0.51	0.49 ^{c,p}
Greece	..	..	..	0.27 ^a	0.28	0.30	0.32 ^p
Hungary	0.19 ^v	0.24 ^v	0.23 ^v	0.24 ^v	0.23 ^v	0.20 ^v	0.19 ^v
Iceland	0.42 ^c	0.67	0.67 ^a	0.66 ^a	..	0.66 ^a	0.67
Ireland	0.22	0.43 ^c	0.43	0.39 ^c	0.37	0.34 ^c	0.33 ^c
Israel ¹	0.61 ^{d,g}	0.55 ^d	0.54 ^d	0.52 ^d	0.53 ^d	0.52 ^d	0.52 ^d
Italy	0.31	0.37	0.35	0.35	0.36	0.37	0.35 ^p
Japan	0.44 ^y	0.45 ^y	0.42 ^y	0.45 ^y	0.45 ^y	0.47 ^{a,y}	0.45 ^y
Korea	0.25 ^g	0.37	0.38	0.38	0.38	0.38	0.39
Luxembourg	0.00	0.14	0.19	0.16	0.22	0.24	0.23 ^{c,p}
Mexico	0.09	0.13	0.13	0.12	..	..	..
Netherlands	0.58	0.68	0.70	0.62	0.61	0.63	0.64 ^p
New Zealand	..	0.42	..	0.40	..	0.36	..
Norway	..	0.55	0.53	0.51	0.51	0.52	0.53 ^p
Poland	0.20	0.25	0.27	0.26	0.30	0.25	0.27
Portugal	0.27 ^c	0.58	0.57	0.53	0.50	0.59 ^a	0.58 ^p
Slovak Republic	0.06	0.12	0.17	0.23	0.27	0.27	0.30
Slovenia	0.23	0.26	0.29	0.29 ^a	0.29	0.27	0.25 ^p
Spain	0.26	0.38	0.38	0.37	0.36	0.35	0.35 ^p
Sweden	..	0.85	0.85 ^c	0.85	0.89 ^c	0.90	0.92 ^p
Switzerland	0.53	..	0.73	..	0.84	..	..
Turkey	0.29 ^y	0.40 ^y	0.39 ^y	0.39 ^y	0.40 ^y	0.40 ^y	0.41 ^y
United Kingdom	0.35	0.49	0.46	0.44	0.43	0.44	0.44 ^{c,p}
United States	0.30 ⁱ	0.40 ⁱ	0.40 ⁱ	0.40 ⁱ	0.39 ⁱ	0.39 ^{i,p}	..
EU28 (OECD estimates)	0.36 ^b	0.45 ^b	0.45 ^b	0.44 ^b	0.45 ^b	0.45 ^b	0.45 ^b
OECD-Total	0.34^b	0.43^b	0.43^b	0.43^b	0.43^b	0.43^b	0.42^b
Argentina	0.12	0.15	0.15	0.16	0.18	0.18	..
China	0.08 ^y	0.14 ^y	0.15 ^y	0.14 ^y	0.15 ^y	0.15 ^y	0.14 ^y
Romania	0.04	0.11	0.11	0.11 ^a	0.10	0.08	0.06
Russian Federation	0.05 ^y	0.09 ^y	0.09 ^y	0.10 ^y	0.10 ^y	0.10 ^y	0.12 ^y
Singapore	0.44	0.58	0.58	0.60	0.58	0.58	..
South Africa	..	0.20	0.20	0.22	0.22
Chinese Taipei	0.23	0.36	0.34	0.34	0.33	0.32	0.30

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 45. Higher education expenditure on R&D (HERD) at 2010 prices and PPPs

Million 2010 USD

	2000	2009	2010	2011	2012	2013	2014
Australia	2 737.4	..	5 430.6	5 802.5 ^v	6 294.2	6 398.5 ^c	..
Austria	..	2 344.3	2 478.7 ^c	2 471.4	2 586.0 ^c	2 625.0	2 653.5
Belgium	1 419.8	1 961.8	2 062.5	2 096.7	2 113.8	2 206.1	2 202.4 ^c
Canada	5 954.3	9 103.1	9 221.6	9 381.5	10 117.9 ^a	9 796.5	9 733.3 ^p
Chile	..	412.5	396.0	376.5	433.3	555.6	543.0 ^p
Czech Republic	329.0	708.3	761.3	1 098.8	1 409.2	1 481.8	1 475.2 ^p
Denmark	941.4	1 943.4	2 066.5	2 150.4	2 227.6	2 378.4	2 403.9 ^{c,p}
Estonia	63.9	161.4	169.1	194.2	216.1	234.4	211.5
Finland	1 006.0	1 414.2	1 565.3	1 533.3	1 533.9	1 457.6	1 485.7
France	8 085.7 ^a	10 518.9	10 954.6	10 932.3	11 081.4	11 224.9	11 182.5 ^p
Germany	11 406.1	15 028.3	15 995.9	16 803.6	17 120.9	17 156.6	16 909.2 ^{c,p}
Greece	..	..	..	791.5 ^a	758.7	799.3	835.9 ^p
Hungary	336.0 ^v	510.9 ^v	493.1 ^v	530.1 ^v	504.9 ^v	442.3 ^v	421.8 ^v
Iceland	39.7 ^c	85.1	82.3 ^a	82.4 ^a	..	87.3 ^a	89.4
Ireland	322.4	845.2 ^c	841.0	784.5 ^c	742.0	693.3 ^c	721.2 ^c
Israel ¹	980.0 ^{d,g}	1 146.0 ^d	1 187.1 ^d	1 198.8 ^d	1 258.4 ^d	1 276.4 ^d	1 299.6 ^d
Italy	6 222.3	7 477.7	7 242.9	7 165.4	7 165.8	7 309.0	6 819.6 ^p
Japan	17 464.7	18 590.3	18 099.5	19 225.5	19 544.1	20 806.7 ^a	20 026.8
Korea	2 401.2 ^g	5 159.8	5 645.5	5 895.2	6 116.1	6 298.0	6 590.3
Luxembourg	1.3	55.6	81.5	70.2	94.9	109.9	110.1 ^{c,p}
Mexico	1 353.3	2 072.9	2 186.0	2 212.8	..	..	..
Netherlands	3 767.2	4 967.1	5 177.4	4 698.6	4 585.4	4 678.8	4 794.7 ^p
New Zealand	..	552.8	..	547.9	..	514.5	..
Norway	..	1 543.2	1 535.4	1 536.3	1 580.6	1 638.2	1 671.6 ^p
Poland	1 096.7	1 891.2	2 129.9	2 184.6	2 570.5	2 186.1	2 431.6
Portugal	715.8 ^c	1 615.3	1 609.6	1 482.4	1 348.4	1 571.4 ^a	1 565.0 ^p
Slovak Republic	50.0	149.3	225.7	315.9	379.5	383.4	437.7
Slovenia	98.0	147.8	161.9	162.7 ^a	158.9	148.7	140.9 ^p
Spain	3 173.4	5 670.3	5 751.6	5 581.0	5 179.0	5 055.3	5 018.0 ^p
Sweden	..	3 138.5	3 318.2 ^c	3 435.5	3 567.0 ^c	3 642.1	3 800.6 ^p
Switzerland	1 777.6	..	2 937.0	..	3 454.6	..	..
Turkey	2 312.9	4 312.2	4 536.3	4 970.9	5 255.6	5 380.2	5 683.9
United Kingdom	6 823.8	10 789.9	10 322.0	10 105.7	10 062.5	10 436.9	10 858.5 ^{c,p}
United States	37 939.7 ⁱ	57 667.8 ⁱ	60 374.0 ⁱ	61 182.8 ⁱ	60 882.4 ⁱ	61 227.3 ^{i,p}	..
EU28 (OECD estimates)	51 131.0 ^b	73 319.0 ^b	75 223.8 ^b	75 745.5 ^b	76 538.4 ^b	77 319.7 ^b	77 559.5 ^b
OECD-Total	125 259.3^b	180 909.3^b	186 341.9^b	190 156.3^b	193 403.9^b	196 681.8^b	196 290.2^b
Argentina	655.8	1 078.1	1 184.2	1 370.2	1 539.7	1 563.1	..
China	3 520.4	15 132.2	18 052.8	19 253.4	21 306.3	22 874.2	23 784.6 ^b
Romania	98.1	387.1	371.6	382.3 ^a	330.3	272.5	214.4
Russian Federation	873.6	2 501.2	2 764.1	3 007.6	3 302.8	3 263.8	3 737.6
Singapore	888.5	1 818.1	2 079.1	2 267.3	2 287.6	2 406.0	..
South Africa	..	1 187.5	1 187.4	1 356.4	1 426.4
Chinese Taipei	1 381.2	2 918.9	3 037.1	3 175.4	3 153.1	3 116.1	3 006.6

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 46. Percentage of Higher education expenditure on R&D (HERD) financed by industry

Percentage

	2000	2009	2010	2011	2012	2013	2014
Australia	5.3	..	4.9	..	4.7	..	..
Austria	..	5.2	..	5.2	..	5.1	..
Belgium	11.8	11.0	10.1	10.7	11.3	12.2	..
Canada	9.5	8.3	7.5	8.2	7.7 ^a	7.2	7.2 ^p
Chile	..	5.9	6.4	5.5	5.4	4.3	3.3 ^p
Czech Republic	1.1	1.1	1.1	1.0	0.8	2.0	2.4 ^p
Denmark	2.0	3.6	3.1	3.4	2.7	2.5	2.5 ^{c,p}
Estonia	7.4	4.3	4.2	3.5	3.5	4.4	4.4
Finland	5.6	6.4	5.7	5.5	5.1	5.0	4.0
France	2.7 ^a	1.8	2.0	2.6	2.6	2.8	..
Germany	11.6	14.2	13.8	13.9	14.0	14.0	..
Greece	..	..	..	9.0 ^a	7.9	5.5	5.9 ^p
Hungary	5.5 ^v	15.5 ^v	13.6 ^v	11.3 ^v	9.5 ^v	8.6 ^v	9.1 ^v
Iceland	..	8.9	..	2.0 ^a	..	4.7 ^a	..
Ireland	5.3	2.7 ^c	2.3	2.2 ^c	2.0	1.8 ^c	1.8 ^c
Israel ¹	3.7 ^{d,g}	10.4 ^d	6.8 ^d	6.8 ^d	6.8 ^d	6.8 ^d	..
Italy	..	1.1	1.1	1.3	1.1	1.3	..
Japan	2.5	2.5	2.6	2.7	2.7	2.6 ^a	2.6
Korea	15.9 ^g	11.3	11.3	11.0	11.0	12.3	11.2
Luxembourg	..	0.2	0.4	0.7	0.8	1.0	1.0 ^{c,p}
Mexico	2.0	14.0	0.4	1.6	..	..	..
Netherlands	..	8.2	..	8.2	8.3	7.6	7.7 ^p
New Zealand	..	5.2	..	4.1	..	4.0	..
Norway	..	3.8	..	4.0	..	4.1	..
Poland	7.8	3.3	2.9	2.6	2.1	3.2	2.8
Portugal	1.0 ^c	0.9	0.6	1.9	1.3	1.7 ^a	..
Slovak Republic	0.3 ^a	2.1	2.3	3.5	3.3	2.6	2.4
Slovenia	7.6	9.2	12.0	12.5 ^a	11.2	11.4	12.6 ^p
Spain	6.9	8.0	7.9	8.0	7.3	6.6	..
Sweden	..	4.5	..	4.0	..	3.8	..
Switzerland	5.1	..	9.1	..	10.9	..	..
Turkey	19.4	16.0	16.2	14.6	13.9	13.9	14.9
United Kingdom	7.1	3.9	4.1	4.0	4.1	4.1	4.1 ^{c,p}
United States	7.1 ⁱ	5.6 ⁱ	4.7 ⁱ	4.5 ⁱ	4.7 ⁱ	4.8 ^{i,p}	..
EU28 (OECD estimates)	6.3 ^b	6.4 ^b	6.4 ^b	6.6 ^b	6.5 ^b	6.4 ^b	..
OECD-Total	6.4^b	6.3^b	5.8^b	5.8^b	5.8^b	5.8^b	..
Argentina	0.2 ^c	0.5	0.3	0.2	0.2	0.3	..
China	32.4	36.7	33.2	35.3	33.4	33.8	33.7
Romania	6.5	3.8	4.3	5.7 ^a	7.5	4.8	6.9
Russian Federation	27.3	22.4	24.5	24.0	27.2	27.6	27.3
Singapore	6.0	3.1	2.5	3.7	4.3	6.1	..
South Africa	..	11.9	6.8	7.6	7.9
Chinese Taipei	4.1	6.3	6.7	7.5	8.0	7.8	8.7

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 47. Higher education researchers in full-time equivalent

FTE

	2000	2009	2010	2011	2012	2013	2014
Australia	39 507	..	60 862	..	65 772	..	..
Austria	..	11 262	11 954 ^c	12 199	12 635 ^c	12 846	13 030 ^{c,p}
Belgium	11 778	17 252	17 878	18 228	18 361	18 750	19 148 ^c
Canada	33 300	47 350	53 970	56 090	57 510	60 270	..
Chile	..	3 007	3 274	3 295	3 561	3 259	3 600 ^p
Czech Republic	3 768	9 664	10 115	10 289	11 498	10 995	10 965 ^p
Denmark	5 866 ^u	12 010	13 250	13 881	14 305	15 057	15 012 ^c
Estonia	1 806	2 397	2 179	2 398	2 534	2 398	2 443
Finland	10 999 ^u	12 304	13 548	11 964 ^a	12 368	12 056	12 381
France	61 583 ^a	68 696	70 295	71 170	71 890	72 749	73 393 ^p
Germany	67 087	84 852	90 398	93 811	97 199	99 123	100 200 ^{c,p}
Greece	..	..	..	16 068 ^a	15 723	18 957	18 851 ^p
Hungary	5 852	6 164	6 041	5 975	5 932	5 939	5 860
Iceland	..	994	..	733 ^a	..	1 011 ^a	1 033
Ireland	2 148	5 937	5 730	5 726	5 722	5 614	5 747 ^c
Israel ¹	..	..	..	7 837 ^d	9 433 ^{c,d}	9 614 ^{c,d}	..
Italy	25 696	43 067	43 470	43 828	45 223	47 526	48 203 ^p
Japan	179 116	124 224	125 263	126 133	125 890	136 593 ^a	137 586
Korea	23 674 ^q	38 163	39 265	40 844	43 826	41 784	41 938
Luxembourg	22	428	491	566	651	769	778 ^{c,p}
Mexico	..	17 381	16 365	16 691	..	..	..
Netherlands	15 586	19 661	20 156	20 965	20 990	21 216	21 450 ^p
New Zealand	..	9 100	..	9 300	..	9 800	..
Norway	..	9 162	9 468	9 760	9 855	10 054	10 296 ^p
Poland	34 246	38 080	39 170	39 677	38 152	37 167	39 695 ^p
Portugal	8 592 ^c	23 242	23 858	23 754	23 825	25 760 ^a	25 848 ^p
Slovak Republic	5 009	8 873	10 203	10 339	9 782	9 625	8 959
Slovenia	1 340	1 978	2 262	2 431 ^a	2 398	2 201	2 180 ^p
Spain	42 064	63 175	64 590	62 185	59 775	57 641	57 156 ^p
Sweden	..	16 308	16 959 ^c	17 101	16 561 ^c	18 401	19 616 ^p
Switzerland	9 425	..	16 810	..	18 760	..	..
Turkey	16 902	31 037	32 913	35 644	40 801	42 574	41 269
United Kingdom	..	158 004	159 941	150 650	153 755	158 445	158 491 ^{c,p}
United States	..	..	..	..	..	..	..
EU28 (OECD estimates)	..	641 707 ^b	662 382 ^b	656 966 ^b	661 903 ^b	675 972 ^b	682 015 ^b
OECD-Total	..	..	..	..	..	..	..
Argentina	13 199	18 728	21 190	22 766	23 332	23 220	..
China	147 866 ^t	225 057 ^a	239 251	249 025	262 052	272 683	282 304
Romania	2 542	7 310	8 245	6 563 ^a	6 591	6 578	6 378
Russian Federation	72 264	77 955	84 359	89 938	87 259	89 085	91 501
Singapore	6 754	12 421	13 766	14 460	15 096	15 853	..
South Africa	..	10 614	11 068	12 828	13 744
Chinese Taipei	11 129 ^m	30 712	31 567	32 045	32 588	31 712	30 621

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, *Main Science and Technology Indicators Database*, January 2016.

Table 48. Higher education researchers as a percentage of national total

Percentage

	2000	2009	2010	2011	2012	2013	2014
Australia	59.9	..	60.6 ^b	..	..	..	..
Austria	..	32.5	32.7 ^c	32.9	32.1 ^c	31.8	31.8 ^{c,p}
Belgium	38.6	45.1	43.8	42.7	40.3	40.4	40.8 ^c
Canada	30.9	31.5	34.0	34.0	35.6	37.9	..
Chile	..	61.9 ^l	60.2 ^l	54.2	52.4	55.3	47.4 ^p
Czech Republic	27.2	33.6	34.6	33.5	34.6	32.1	30.4 ^p
Denmark	..	32.6	35.4	35.4	35.7	37.3	36.9 ^c
Estonia	67.7	55.6	53.4	53.2	55.3	54.4	56.7 ^p
Finland	31.6 ^u	30.1	32.7	29.9 ^a	30.6	30.8	32.3
France	35.8 ^a	29.3 ^d	28.9 ^a	28.6	27.8	27.3	27.2 ^p
Germany	26.0 ^c	26.7	27.6 ^c	27.7	27.6	28.0	27.9 ^{c,p}
Greece	..	..	..	65.1 ^a	63.4	64.9	63.5 ^p
Hungary	40.6 ^d	30.7	28.3	26.0	24.9	23.7	22.4
Iceland	..	39.7	..	32.5 ^a	..	51.9 ^a	..
Ireland	25.2 ^c	41.8	40.4 ^c	37.5	35.8 ^c	33.3	32.9 ^c
Israel ¹	..	..	..	14.2 ^d	14.9 ^{c,d}	..	..
Italy	38.9	42.3	42.0	41.3	40.9	40.9	40.2 ^p
Japan	27.7	19.0	19.1	19.2	19.5	20.7 ^a	20.1
Korea	21.8 ^g	15.6	14.9	14.1	13.9	13.0	12.1
Luxembourg	1.3	17.9	18.8	20.0	28.2 ^a	30.7	30.5 ^{c,p}
Mexico	..	40.4	44.2	43.0	..	..	..
Netherlands	36.9	41.9	37.5	34.2 ^a	28.7 ^a	27.7	28.4 ^p
New Zealand	..	56.5	..	57.1	..	54.7	..
Norway	..	34.9	35.8	35.8	35.4	35.5	35.1 ^p
Poland	62.1	62.3	60.7	61.9	56.9	52.0	50.5 ^p
Portugal	51.3 ^c	58.3	57.5	53.9	56.1	68.1 ^a	67.2 ^p
Slovak Republic	50.3	66.8	67.2	67.5	64.1	65.4	60.8
Slovenia	30.9	26.6	29.4	27.7 ^a	27.0	25.3	25.4 ^p
Spain	54.9	47.2	48.0	47.7	47.1	46.8	46.8 ^p
Sweden	..	34.5 ^l	34.4 ^{c,l}	35.1 ^l	33.6 ^{c,l}	28.7 ^{a,l}	29.4 ^{l,p}
Switzerland	36.1	..	..	..	52.2	..	..
Turkey	73.2	53.7	51.2	49.4	49.7	47.8	46.0
United Kingdom	..	61.7 ^c	62.3 ^c	59.9	60.0 ^c	59.2	57.9 ^{c,p}
United States	..	..	..	..	..	..	..
EU28 (OECD estimates)	..	41.3 ^b	41.4 ^b	40.4 ^b	39.4 ^b	39.0 ^b	38.7 ^b
OECD-Total	..	..	..	..	..	..	..
Argentina	50.0	42.8	44.5	45.2	45.2	44.9	..
China	21.3 ^{a,t}	19.5 ^a	19.8	18.9	18.7	18.4	18.5
Romania	12.4	37.9	41.7	40.8 ^a	36.6	35.4	35.2
Russian Federation	14.3	17.6	19.1	20.1	19.7	20.2	20.6
Singapore	40.6	40.7	43.0	42.9	44.2	44.0	..
South Africa	..	53.6	59.1	63.8	64.3
Chinese Taipei	20.1 ^d	25.7	24.6	23.8	23.3	22.5	21.4

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, *Main Science and Technology Indicators Database*, January 2016.

Table 49. Higher education Total R&D personnel in full-time equivalent

FTE

	2000	2009	2010	2011	2012	2013	2014
Australia	46 287	..	69 392	..	74 669	..	..
Austria	..	15 059	15 878 ^c	16 096	16 598 ^c	16 840	17 082 ^{c,p}
Belgium	15 884	21 617	22 371	22 709	22 770	23 156	23 548 ^c
Canada	45 150	60 180	67 590	70 010	71 320	74 730	..
Chile	..	5 637	6 133	6 223	6 819	6 672	7 361 ^p
Czech Republic	5 331	13 648	14 056	14 724	16 441	16 240	16 525 ^p
Denmark	8 015	16 819	18 444	18 916	19 991	20 925	20 862 ^c
Estonia	2 305	2 688	2 465	2 735	3 000	2 850	3 103
Finland	15 459	16 490	17 924	15 847 ^a	16 146	15 726	16 034
France	90 051 ^a	105 048	106 585	107 891	108 794	109 883	111 700 ^p
Germany	100 790	115 851	120 981	124 308	127 900	130 079	131 200 ^{c,p}
Greece	..	..	..	20 640 ^a	20 508	23 390	23 973 ^p
Hungary	8 859	8 372	8 256	8 260	8 130	8 154	7 937
Iceland	..	1 119	..	1 057 ^a	..	1 211 ^a	1 232
Ireland	2 602	6 698	6 501	6 437	6 373	6 208	6 356 ^c
Israel ¹	9 405 ^d	8 987 ^d	9 120 ^d	9 220 ^d	11 097 ^{c,d}	11 311 ^{c,d}	..
Italy	54 837	74 949	72 299	73 723	76 207	76 986	73 574 ^p
Japan	227 882	184 951	188 324	192 265	195 043	207 766 ^a	209 101
Korea	36 209 ^g	66 779	73 511	73 468	77 099	73 196	74 861
Luxembourg	23	485	548	631	723	866	876 ^{c,p}
Mexico	..	..	..	..	..	..	..
Netherlands	30 078	34 122	34 981	32 198	31 952	32 323	32 700 ^p
New Zealand	..	11 300	..	11 500	..	11 600	..
Norway	..	11 655	11 968	12 283	12 413	12 715	13 010 ^p
Poland	41 499	41 440	43 111	44 154	42 917	41 441	44 304 ^p
Portugal	9 680 ^c	24 965	25 092	24 491	24 513	27 753 ^a	27 687 ^p
Slovak Republic	5 860	9 360	10 535	10 712	10 124	9 969	9 297
Slovenia	1 746	2 354	2 727	3 003 ^a	2 926	2 805	2 667 ^p
Spain	49 470	81 203	83 300	80 900	77 238	74 923	73 428 ^p
Sweden	..	18 857	19 471 ^c	20 010	21 781 ^c	21 004	22 410 ^p
Switzerland	15 200	..	24 719	..	26 945	..	..
Turkey	..	31 037 ^m	32 913 ^m	35 644 ^m	40 801 ^m	42 574 ^m	41 269 ^m
United Kingdom	..	168 936 ^m	170 446 ^m	175 185 ^m	173 499 ^m	177 767 ^m	177 810 ^{c,m,p}
United States	..	..	..	..	..	..	..
EU28 (OECD estimates)	610 046 ^b	829 096 ^b	846 133 ^b	853 330 ^b	857 020 ^b	868 539 ^b	871 768 ^b
OECD-Total	..	..	..	..	..	..	..
Argentina	14 313	20 861	24 602	26 270	27 178	27 737	..
China	159 246 ^t	275 191 ^a	289 670	299 296	313 520	324 942	334 794
Romania	3 780	8 824	9 054	8 879 ^a	8 710	9 523	8 966
Russian Federation	99 552	106 443	113 353	121 151	119 360	118 971	121 526
Singapore	7 413	13 775	14 877	15 551	16 252	17 099	..
South Africa	..	11 870	12 477	14 563	15 614
Chinese Taipei	12 873 ^m	34 752	35 219	35 818	36 115	35 088	34 135

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 50. Government intramural expenditure on R&D (GOVERD) at current prices and PPPs

Million USD

	2000	2009	2010	2011	2012	2013	2014
Australia	1 801.1	..	2 550.6 ^c	2 348.7 ^v	2 419.0	2 587.3 ^c	..
Austria	..	472.6	502.3 ^c	509.0	518.3 ^c	529.1	540.1 ^{c,p}
Belgium	350.4	743.0	739.1	784.2	899.8 ^a	950.5	988.2 ^c
Canada	1 881.9	2 616.2	2 760.2	2 405.0	2 333.3	2 524.1	2 374.9 ^p
Chile	..	32.1	37.9	49.0	55.3	123.6 ^a	120.9 ^p
Czech Republic	472.0	851.3	822.5	925.7	995.3	1 104.6	1 193.8 ^p
Denmark	432.2	139.0	150.5	145.2	176.2	181.9	183.7 ^{c,p}
Estonia	18.8	41.3	46.9	59.3	67.3	54.8	58.3
Finland	470.4	683.3	708.1	698.1	674.8	653.3	609.7
France	5 710.6 ^a	8 112.2	7 115.5 ^a	7 401.1	7 213.0	7 553.8	7 695.6 ^p
Germany	7 109.5 ^o	12 270.5 ^o	13 008.5 ^o	13 995.0 ^o	14 435.0 ^o	15 260.1 ^o	15 849.7 ^{c,o,p}
Greece	..	..	..	473.8 ^a	498.1	666.9	654.0 ^p
Hungary	254.9 ^{d,v}	477.8 ^v	458.2 ^v	424.9 ^v	413.2 ^v	494.9 ^v	465.7 ^v
Iceland	55.3 ^c	74.6	..	55.9 ^{a,l}	..	16.7 ^a	17.7
Ireland	99.4	154.8	151.2	158.5	159.5	157.3	162.0 ^c
Israel ¹	198.3 ^{a,d}	157.5 ^d	178.1 ^d	199.4 ^d	207.6 ^d	207.4 ^d	214.4 ^d
Italy	2 884.2	3 238.5	3 446.8	3 451.8	4 028.3	3 937.6	4 013.2 ^p
Japan	9 767.3	12 619.7	12 689.0	12 428.3	13 130.7	14 884.7	13 892.5
Korea	2 467.6 ^g	5 986.9	6 612.3	6 847.1	7 299.4	7 426.9	8 103.2
Luxembourg	27.7 ^o	110.1 ^{a,o}	139.5 ^o	165.2 ^o	172.8 ^o	196.6 ^o	198.8 ^{c,o,p}
Mexico	1 402.8	1 879.3	2 546.6	2 455.3	..	..	..
Netherlands	1 091.5 ^a	1 576.7 ^o	1 506.7 ^o	1 589.1 ^o	1 787.3 ^{a,o}	1 930.1 ^o	1 835.5 ^{o,p}
New Zealand	..	418.4	..	401.1	..	440.8	..
Norway	..	766.0	779.2	831.6	873.2	896.5	874.3 ^p
Poland	840.2	1 668.6	2 055.5	2 208.3	2 212.7	2 176.9	2 163.2
Portugal	316.8 ^c	319.7	310.8	305.6	210.4	252.4	246.2 ^p
Slovak Republic	94.9 ^d	200.9 ^d	244.7 ^d	249.9 ^d	279.6 ^d	251.5 ^d	385.5 ^d
Slovenia	124.9	211.5	212.0	202.8 ^a	197.8	203.1	182.0 ^p
Spain	1 232.8	4 124.3	4 088.0	3 924.0	3 696.3	3 617.4	3 615.8 ^p
Sweden	..	556.2	613.5 ^c	578.2	666.6 ^c	526.7 ^m	520.1 ^p
Switzerland	75.6 ^{a,h}	..	82.9 ^h	..	102.6 ^h	..	..
Turkey	174.8	1 114.2	1 128.4	1 273.9	1 400.5	1 429.5	1 466.4
United Kingdom	3 520.0	3 612.3	3 636.0	3 357.0	3 122.9	3 297.4	3 427.2 ^{c,p}
United States	29 076.0 ^h	48 860.0	52 121.0	53 917.0	52 320.0	51 022.0 ^p	..
EU28 (OECD estimates)	26 082.9 ^b	40 813.4 ^b	41 051.3 ^b	42 436.2 ^b	43 276.2 ^b	44 870.7 ^b	45 789.0 ^b
OECD-Total	73 246.6^b	116 562.8^b	121 826.3^b	124 363.1^b	125 532.6^b	128 944.5^b	131 644.1^b
Argentina	609.6	1 525.2	1 700.5	1 890.2	2 364.4	2 601.7	..
China	10 399.8	34 655.6 ^a	38 681.2	40 473.8	47 520.4	53 886.6	58 270.3
Romania	88.2	521.2	557.6	702.8 ^a	711.2	715.3	646.5 ^b
Russian Federation	2 567.8	10 487.2	10 242.6	10 500.4	12 202.6	11 081.1	12 150.9
Singapore	423.0	749.9	747.8	851.1	818.2	984.6	..
South Africa	..	1 040.7	1 008.5	1 040.1	1 104.1
Chinese Taipei	2 160.3 ^d	3 792.8	3 989.9	4 138.9	4 100.0	4 098.4	4 073.6

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Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 51. Government intramural expenditure on R&D (GOVERD) as a percentage of GDP

Percentage

	2000	2009	2010	2011	2012	2013	2014
Australia	0.33	..	0.27 ^c	0.24 ^v	0.24	0.24 ^c	..
Austria	..	0.14	0.14 ^c	0.14	0.13 ^c	0.13	0.13 ^{c,p}
Belgium	0.12	0.18	0.17	0.17	0.19 ^a	0.20	0.20 ^c
Canada	0.21	0.20	0.20	0.17	0.16	0.16	0.15 ^p
Chile	..	0.01 ^y	0.01 ^y	0.01 ^y	0.01 ^y	0.03 ^{a,y}	0.03 ^{p,y}
Czech Republic	0.28	0.30	0.29	0.31	0.33	0.35	0.36 ^p
Denmark	0.27	0.06	0.06	0.06	0.07	0.07	0.07 ^{c,p}
Estonia	0.14	0.15	0.17	0.19	0.20	0.15	0.16
Finland	0.34	0.34	0.34	0.32	0.31	0.29	0.27
France	0.36 ^a	0.36	0.30 ^a	0.30	0.29	0.29	0.30 ^p
Germany	0.32 ^o	0.40 ^o	0.40 ^o	0.41 ^o	0.41 ^o	0.42 ^o	0.42 ^{c,o,p}
Greece	..	..	..	0.16 ^a	0.17	0.23	0.22 ^p
Hungary	0.21 ^{d,v}	0.23 ^v	0.21 ^v	0.19 ^v	0.18 ^v	0.21 ^v	0.19 ^v
Iceland	0.66 ^c	0.59	..	0.44 ^{a,l}	..	0.12 ^a	0.12
Ireland	0.09	0.08	0.08	0.08	0.08	0.07	0.07 ^c
Israel ¹	0.13 ^{a,d}	0.08 ^d	0.08 ^d	0.08 ^d	0.08 ^d	0.08 ^d	0.08 ^d
Italy	0.19	0.16	0.17	0.16	0.19	0.18	0.19 ^p
Japan	0.30 ^y	0.31 ^y	0.29 ^y	0.28 ^y	0.29 ^y	0.32 ^y	0.30 ^y
Korea	0.29 ^g	0.43	0.44	0.44	0.45	0.45	0.48
Luxembourg	0.11 ^o	0.28 ^{a,o}	0.33 ^o	0.35 ^o	0.36 ^o	0.38 ^o	0.36 ^{c,o,p}
Mexico	0.14	0.12	0.15	0.13	..	..	..
Netherlands	0.22 ^a	0.21 ^o	0.20 ^o	0.21 ^o	0.23 ^{a,o}	0.24 ^o	0.23 ^{o,p}
New Zealand	..	0.32	..	0.28	..	0.27	..
Norway	..	0.28	0.27	0.27	0.27	0.26	0.26 ^p
Poland	0.21	0.23	0.26	0.26	0.25	0.23	0.23
Portugal	0.17 ^c	0.12	0.11	0.11	0.07	0.09	0.08 ^p
Slovak Republic	0.16 ^d	0.16 ^d	0.19 ^d	0.18 ^d	0.20 ^d	0.17 ^d	0.25 ^d
Slovenia	0.35	0.38	0.37	0.35 ^a	0.34	0.34	0.29 ^p
Spain	0.14	0.27	0.27	0.26	0.25	0.24	0.23 ^p
Sweden	..	0.15	0.16 ^c	0.14	0.16 ^c	0.12 ^m	0.12 ^p
Switzerland	0.03 ^{a,h}	..	0.02 ^h	..	0.02 ^h	..	..
Turkey	0.03 ^y	0.11 ^y	0.10 ^y	0.10 ^y	0.10 ^y	0.10 ^y	0.10 ^y
United Kingdom	0.22	0.16	0.16	0.15	0.13	0.13	0.13 ^{c,p}
United States	0.28 ^h	0.34	0.35	0.35	0.32	0.31 ^p	..
EU28 (OECD estimates)	0.24 ^b	0.25 ^b	0.24 ^b	0.24 ^b	0.24 ^b	0.24 ^b	0.24 ^b
OECD-Total	0.25^b	0.28^b	0.28^b	0.27^b	0.27^b	0.27^b	0.26^b
Argentina	0.14	0.22	0.22	0.22	0.26	0.28	..
China	0.28 ^y	0.31 ^{a,y}	0.31 ^y	0.29 ^y	0.31 ^y	0.33 ^y	0.32 ^y
Romania	0.07	0.16	0.17	0.20 ^a	0.20	0.19	0.16
Russian Federation	0.26 ^y	0.38 ^y	0.35 ^y	0.33 ^y	0.36 ^y	0.34 ^y	0.36 ^y
Singapore	0.26	0.24	0.21	0.22	0.20	0.23	..
South Africa	..	0.18	0.17	0.16	0.17
Chinese Taipei	0.45 ^d	0.48	0.45	0.44	0.42	0.40	0.38

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

**Table 52. Government intramural expenditure on R&D (GOVERD)
at 2010 prices and PPPs**

Million 2010 USD

	2000	2009	2010	2011	2012	2013	2014
Australia	2 311.6	..	2 550.6 ^c	2 317.7 ^v	2 440.1	2 420.1 ^c	..
Austria	..	479.3	502.3 ^c	496.3	486.6 ^c	479.1	484.3 ^{c,p}
Belgium	441.1	761.8	739.1	756.4	840.9 ^a	861.0	895.4 ^c
Canada	2 374.3	2 648.1	2 760.2	2 364.4	2 268.4	2 363.8	2 216.1 ^p
Chile	..	34.6	37.9	46.2	51.5	118.6 ^a	113.5 ^p
Czech Republic	586.3	836.5	822.5	891.4	944.4	996.6	1 057.0 ^p
Denmark	593.2	145.1	150.5	141.2	167.1	166.0	167.7 ^{c,p}
Estonia	28.2	42.1	46.9	56.4	62.5	49.5	52.4
Finland	596.4	680.5	708.1	678.6	640.6	604.5	561.7
France	7 468.7 ^a	8 246.5	7 115.5 ^a	7 229.7	6 999.0	7 020.7	7 112.2 ^p
Germany	9 623.3 ^o	12 572.8 ^o	13 008.5 ^o	13 642.1 ^o	13 888.7 ^o	14 229.4 ^o	14 503.7 ^{c,o,p}
Greece	..	..	..	469.3 ^a	471.3	597.5	592.8 ^p
Hungary	365.0 ^{d,v}	489.4 ^v	458.2 ^v	413.9 ^v	396.1 ^v	457.7 ^v	429.4 ^v
Iceland	62.4 ^c	74.8	..	55.4 ^{a,l}	..	15.9 ^a	16.5
Ireland	129.4	160.1	151.2	153.4	153.0	147.8	153.6 ^c
Israel ¹	202.7 ^{a,d}	159.4 ^d	178.1 ^d	194.3 ^d	195.3 ^d	189.5 ^d	195.2 ^d
Italy	3 793.2	3 248.2	3 446.8	3 353.9	3 790.5	3 615.5	3 665.7 ^p
Japan	11 889.0	12 773.9	12 689.0	12 188.7	12 613.9	14 166.6	13 256.3
Korea	2 834.8 ^g	6 060.0	6 612.3	6 852.6	7 232.5	7 437.6	8 166.8
Luxembourg	36.8 ^o	111.8 ^{a,o}	139.5 ^o	153.9 ^o	156.4 ^o	171.6 ^o	171.9 ^{c,o,p}
Mexico	1 996.9	1 902.3	2 546.6	2 331.7	..	..	..
Netherlands	1 420.5 ^a	1 576.5 ^o	1 506.7 ^o	1 552.1 ^o	1 718.5 ^{a,o}	1 783.5 ^o	1 696.5 ^{o,p}
New Zealand	..	423.9	..	390.6	..	391.7	..
Norway	..	789.1	779.2	805.0	829.2	830.5	816.8 ^p
Poland	1 121.5	1 750.7	2 055.5	2 149.2	2 087.2	2 004.6	1 997.3
Portugal	456.5 ^c	322.7	310.8	300.6	198.0	229.3	220.4 ^p
Slovak Republic	129.6 ^d	202.4 ^d	244.7 ^d	250.0 ^d	273.5 ^d	237.2 ^d	360.4 ^d
Slovenia	152.9	210.6	212.0	197.2 ^a	186.9	185.6	163.9 ^p
Spain	1 695.0	4 089.2	4 088.0	3 852.3	3 563.6	3 376.9	3 351.7 ^p
Sweden	..	557.3	613.5 ^c	562.8	631.8 ^c	494.0 ^m	491.5 ^p
Switzerland	102.0 ^{a,h}	..	82.9 ^h	..	92.8 ^h	..	..
Turkey	237.2	1 142.8	1 128.4	1 238.0	1 317.0	1 332.5	1 359.0
United Kingdom	4 186.9	3 537.9	3 636.0	3 330.7	3 032.1	3 120.7	3 224.1 ^{c,p}
United States	35 941.0 ^h	49 456.8	52 121.0	52 826.3	50 334.5	48 298.4 ^p	..
EU28 (OECD estimates)	34 484.8 ^b	41 300.6 ^b	41 051.3 ^b	41 421.0 ^b	41 502.9 ^b	41 657.3 ^b	42 101.3 ^b
OECD-Total	92 382.9^b	118 001.8^b	121 826.3^b	121 796.1^b	120 886.7^b	121 633.0^b	122 857.0^b
Argentina	749.5	1 539.6	1 700.5	1 842.5	2 251.9	2 412.8	..
China	12 932.0	35 079.6 ^a	38 681.2	39 656.1	45 738.0	51 104.7	54 469.2 ^b
Romania	156.8	546.3	557.6	680.7 ^a	685.0	680.4	605.0
Russian Federation	4 694.0	10 615.3	10 242.6	9 935.4	11 437.7	10 968.3	11 648.8
Singapore	523.2	759.5	747.8	833.8	788.0	932.7	..
South Africa	..	1 053.4	1 008.5	1 019.1	1 062.7
Chinese Taipei	2 670.4 ^d	3 839.2	3 989.9	4 055.1	3 944.6	3 879.7	3 793.9

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 53. Percentage of Government intramural expenditure on R&D (GOVERD) financed by industry

Percentage

	2000	2009	2010	2011	2012	2013	2014
Australia	12.3	..	..	7.1 ^v	7.7	..	..
Austria	..	6.0	..	4.2	..	4.2	..
Belgium	7.2	9.8	6.7	5.7	5.0 ^a	5.4	..
Canada	3.1	4.3	4.0	2.8	2.1	2.0	1.9 ^p
Chile	..	0.9	0.7	2.0	2.4	1.5 ^a	3.3 ^p
Czech Republic	9.6	4.2	4.7	3.4	4.0	3.3	3.5 ^p
Denmark	6.7	0.4	0.9	3.6	1.6	2.8	2.8 ^{c,p}
Estonia	13.1	1.9	2.4	1.5	1.2	1.3	1.3
Finland	14.5	13.6	9.7	11.0	9.9	9.9	8.3
France	6.7 ^a	7.2	8.0 ^a	7.8	7.8	8.0	..
Germany	2.2 ^o	9.8 ^o	9.0 ^o	9.3 ^o	10.3 ^o	10.3 ^o	..
Greece	..	..	..	6.6 ^a	5.5	3.6	3.2 ^p
Hungary	10.9 ^{d,v}	12.6 ^v	12.7 ^v	11.5 ^v	9.8 ^v	9.7 ^v	7.8 ^v
Iceland	..	7.2	..	16.3 ^a	..	17.6 ^a	..
Ireland	10.7	2.0	1.6	1.7	1.8	1.9	1.8 ^c
Israel ¹	2.3 ^{a,d}	1.2 ^d	2.4 ^d	2.0 ^d	2.3 ^d	2.3 ^d	..
Italy	1.7	5.1	4.8	5.3	5.3	4.2	..
Japan	1.0	0.7	0.7	2.0	1.7	1.9	1.9
Korea	9.5 ^g	3.1	3.5	3.2	3.5	2.8	2.8
Luxembourg	5.8 ^o	3.2 ^{a,o}	2.4 ^o	5.0 ^o	4.6 ^o	1.9 ^o	2.0 ^{c,o,p}
Mexico	4.9	3.1	1.4	1.6	..	..	..
Netherlands	..	32.4 ^o	..	17.9 ^o	18.3 ^{a,o}	16.6 ^o	16.9 ^{o,p}
New Zealand	..	14.5	..	17.6	..	17.2	..
Norway	..	10.3	10.1	9.5	9.1	8.9	..
Poland	9.5	6.3 ^o	6.2 ^o	7.4	4.9	4.3	.. ^x
Portugal	3.6 ^c	1.6	3.6	1.0	1.5	1.7	..
Slovak Republic	12.8 ^d	14.4 ^d	13.0 ^d	12.5 ^d	13.2 ^d	8.2 ^d	13.4 ^d
Slovenia	13.0	11.7	13.0	7.0 ^a	8.4	7.6	7.8 ^p
Spain	6.1	7.4	7.2	6.9	5.0	5.9	..
Sweden	..	5.1	..	5.2	..	3.7	..
Switzerland	0.0 ^{a,h}	..	0.0 ^h	..	0.0 ^h	..	..
Turkey	5.4	3.4	1.8	2.0	2.1	2.0	2.6
United Kingdom	10.4	8.0	7.4	9.7	12.5	11.6	10.7 ^{c,p}
United States	0.0 ^h	0.4 ^{a,j}	0.3 ⁱ	0.4 ⁱ	0.3 ⁱ	0.4 ^{i,p}	..
EU28 (OECD estimates)	6.2 ^b	8.8 ^b	8.3 ^b	8.4 ^b	8.6 ^b	8.4 ^b	..
OECD-Total	3.2^b	3.9^{a,b}	3.5^b	3.6^b	3.7^b	3.7^b	..
Argentina	0.6 ^c	0.2	0.5	1.1	1.9	0.5	..
China	9.6	4.3 ^a	4.4	4.2	4.1	4.6	4.1
Romania	23.4	13.5	19.0	22.7 ^a	17.3	16.0	17.0
Russian Federation	10.8	11.1	12.9	11.8	13.1	13.8	11.5
Singapore	1.3	2.6	3.5	2.9	3.8	6.1	..
South Africa	..	2.7	4.4	1.4	2.7
Chinese Taipei	9.3 ^d	2.3	2.9	2.6	3.0	3.1	3.4

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 54. Government researchers in full-time equivalent

FTE

	2000	2009	2010	2011	2012	2013	2014
Australia	8 724	..	..	8 454	8 311	..	..
Austria	..	1 559	1 568 ^c	1 511	1 549 ^c	1 567	1 589 ^{c,p}
Belgium	1 809	2 820	2 650	2 781	3 591 ^a	3 657	3 724
Canada	7 440	9 170	9 610	9 450	9 490	9 100	..
Chile	..	269	292	337	404	710 ^a	769 ^p
Czech Republic	4 424	6 270	6 244	6 235	6 066	6 326	6 590 ^p
Denmark	3 569 ^u	1 115	1 216	1 181	1 208	1 254	1 250 ^c
Estonia	559	513	548	536	546	553	533
Finland	4 487 ^u	4 505	4 551	4 630	4 432	4 482	4 089
France	26 132 ^{a,d}	28 702 ^d	26 611 ^a	26 808	27 413	28 227	29 390 ^p
Germany	37 667	49 241	51 783	54 185	55 597	56 755	55 000 ^{c,p}
Greece	..	..	..	4 370 ^a	4 510	5 778	5 610 ^p
Hungary	4 653 ^d	4 928	5 027	5 271	4 674	4 782	4 776
Iceland	..	547	..	411 ^a	..	178 ^a	..
Ireland	737 ^a	520	562	547	495	437	455 ^c
Israel ¹	..	..	..	477 ^d	503 ^{c,d}	..	..
Italy	14 315	16 678	17 496	18 780	20 499	21 313	21 621 ^p
Japan	31 228	32 715	32 422	32 164	31 567	30 904	30 373
Korea	11 564 ⁹	18 217	19 753	21 203	22 204	23 292	24 750
Luxembourg	225	597	662	747	732	733	742 ^{c,p}
Mexico	..	8 283	8 756	9 154	..	..	..
Netherlands	5 952 ^a	6 820 ^o	6 959 ^o	6 761 ^o	8 581 ^{a,o}	8 616 ^o	8 127 ^{o,p}
New Zealand	..	2 200	..	1 900	..	2 000	..
Norway	..	4 450 ^u	4 479	4 601	4 654	4 705	4 600 ^p
Poland	11 100	13 193	13 553	13 824	13 583	13 571	13 847 ^p
Portugal	3 546 ^c	2 765	2 440	2 531	1 682	1 386 ^a	1 394 ^p
Slovak Republic	2 526 ^d	2 763 ^d	2 999 ^d	2 892 ^d	2 967 ^d	2 635 ^d	3 123 ^d
Slovenia	1 495	2 171	2 036	1 817 ^a	1 850	1 825	1 744 ^p
Spain	12 708	24 165	24 377	22 893	21 850	20 673	20 180 ^p
Sweden	..	1 483 ^m	1 892 ^{c,m}	2 097 ^{a,m}	2 002 ^{c,m}	2 386 ^{a,m}	2 304 ^{m,p}
Switzerland	405 ^{a,h}	..	471 ^h	..	430 ^h	..	..
Turkey	2 479	5 703	6 087	6 060	6 288	6 294	6 541
United Kingdom	15 004	8 701	8 620	7 571	7 729	7 641	7 640 ^{c,p}
United States	47 522 ^{d,h}	..	..	..	..	..	..
EU28 (OECD estimates)	169 291 ^b	195 829 ^b	198 085 ^b	200 647 ^b	204 057 ^b	207 203 ^b	205 900 ^b
OECD-Total	276 367^b	324 766^b	332 851^b	338 513^b	344 466^b	347 503^b	..
Argentina	9 548	20 079	21 452	22 566	23 237	23 444	..
China	193 353 ^t	219 483 ^a	231 699	250 250	269 581	288 675	295 899
Romania	5 244	5 744	5 590	5 846 ^a	6 372	6 583	6 409
Russian Federation	142 191	146 211	145 056	141 572	149 593	144 776	144 700
Singapore	1 247	1 841	1 757	1 827	1 756	1 843	..
South Africa	..	2 932	2 651	2 645	2 789
Chinese Taipei	11 658 ^d	14 390	15 131	14 706	14 630	14 599	14 753

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 1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

 Source: OECD, *Main Science and Technology Indicators Database*, January 2016.

Table 55. Government researchers as a percentage of national total

Percentage

	2000	2009	2010	2011	2012	2013	2014
Australia	13.2	..	..	..	..	..	..
Austria	..	4.5	4.3 ^c	4.1	3.9 ^c	3.9	3.9 ^{c,p}
Belgium	5.9	7.4	6.5	6.5	7.9 ^a	7.9	7.9 ^c
Canada	6.9	6.1	6.1	5.7	5.9	5.7	..
Chile	..	5.5 ^l	5.4 ^l	5.5	5.9	12.1 ^a	10.1 ^p
Czech Republic	31.9	21.8	21.4	20.3	18.3	18.5	18.3 ^p
Denmark	..	3.0	3.2	3.0	3.0	3.1	3.1 ^c
Estonia	21.0	11.9	13.4	11.9	11.9	12.5	12.4 ^p
Finland	12.9 ^u	11.0	11.0	11.6 ^a	11.0	11.4	10.7
France	15.2 ^{a,d}	12.2 ^d	10.9 ^a	10.8	10.6	10.6	10.9 ^p
Germany	14.6 ^c	15.5	15.8 ^c	16.0	15.8	16.0	15.3 ^{c,p}
Greece	..	..	..	17.7 ^a	18.2	19.8	18.9 ^p
Hungary	32.3 ^d	24.6	23.6	22.9	19.6	19.1	18.2
Iceland	..	21.8	..	18.2 ^a	..	9.1 ^a	..
Ireland	8.7 ^{a,c}	3.7	4.0 ^c	3.6	3.1 ^c	2.6	2.6 ^c
Israel ¹	..	..	..	0.9 ^d	0.8 ^{c,d}	..	..
Italy	21.7	16.4	16.9	17.7	18.5	18.3	18.0 ^p
Japan	4.8	5.0	4.9	4.9	4.9	4.7 ^a	4.4
Korea	10.7 ^g	7.5	7.5	7.3	7.0	7.2	7.2
Luxembourg	13.6	24.9	25.3	26.4	31.7 ^a	29.3	29.1 ^{c,p}
Mexico	..	19.3	23.7	23.6	..	..	..
Netherlands	14.1 ^a	14.5 ^o	13.0 ^o	11.0 ^{a,o}	11.7 ^{a,o}	11.2 ^o	10.8 ^{o,p}
New Zealand	..	13.7	..	11.7	..	11.2	..
Norway	..	16.9 ^u	16.9	16.9	16.7	16.6	15.7 ^p
Poland	20.1	21.6	21.0	21.6	20.3	19.0	17.6 ^p
Portugal	21.2 ^c	6.9	5.9	5.7	4.0	3.7 ^a	3.6 ^p
Slovak Republic	25.4 ^d	20.8 ^d	19.7 ^d	18.9 ^d	19.4 ^d	17.9 ^d	21.2 ^d
Slovenia	34.5	29.2	26.4	20.7 ^a	20.8	21.0	20.3 ^p
Spain	16.6	18.1	18.1	17.6	17.2	16.8	16.5 ^p
Sweden	..	3.1	3.8 ^c	4.3 ^a	4.1 ^c	3.7 ^a	3.5 ^p
Switzerland	1.6 ^{a,h}	..	..	..	1.2 ^h	..	..
Turkey	10.7	9.9	9.5	8.4	7.7	7.1	7.3
United Kingdom	8.8 ^b	3.4 ^c	3.4 ^c	3.0	3.0 ^c	2.9	2.8 ^{c,p}
United States	4.8 ^{b,d,h}	..	..	..	..	..	..
EU28 (OECD estimates)	15.1 ^b	12.6 ^b	12.4 ^b	12.3 ^b	12.1 ^b	12.0 ^b	11.7 ^b
OECD-Total	8.8^b	7.9^b	8.0^b	7.9^b	7.8^b	..	..
Argentina	36.1	45.9	45.1	44.8	45.0	45.4	..
China	27.8 ^{a,t}	19.0 ^a	19.1	19.0	19.2	19.5	19.4
Romania	25.6	29.8	28.3	36.4 ^a	35.4	35.4	35.4
Russian Federation	28.1	33.1	32.8	31.6	33.7	32.9	32.5
Singapore	7.5	6.0	5.5	5.4	5.1	5.1	..
South Africa	..	14.8	14.2	13.1	13.0
Chinese Taipei	21.0 ^{d,l}	12.0	11.8	10.9	10.4	10.3	10.3

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 56. Government Total R&D personnel in full-time equivalent

FTE

	2000	2009	2010	2011	2012	2013	2014
Australia	18 151	..	..	16 689	16 381	..	..
Austria	..	2 679	2 680 ^c	2 567	2 547 ^c	2 538	2 574 ^{c,p}
Belgium	3 493	4 591	4 404	4 573	5 818 ^a	5 932	6 047
Canada	17 240	20 160	19 880	19 740	19 070	18 110	..
Chile	..	375	404	504	607	1 382 ^a	1 372 ^p
Czech Republic	7 148	11 180	10 926	11 133	11 345	11 749	11 859 ^p
Denmark	5 658	1 456	1 563	1 511	1 543	1 544	1 539 ^c
Estonia	948	718	772	776	774	851	800
Finland	7 314	6 787	6 836	6 881	6 360	6 319	5 880
France	53 388 ^a	53 148 ^d	49 925 ^a	49 685	49 903	49 980	50 876 ^p
Germany	71 454 ^o	86 633 ^o	90 531 ^o	93 663 ^o	95 882 ^o	98 161 ^o	98 500 ^{c,o,p}
Greece	..	..	..	9 620 ^a	9 982	11 436	10 818 ^p
Hungary	8 204 ^d	8 234	8 225	8 480	7 605	7 765	7 215
Iceland	..	816	..	594 ^a	..	279 ^a	..
Ireland	1 436 ^a	1 048	1 027	1 034	921	818	852 ^c
Israel ¹	..	..	..	837 ^d	883 ^{c,d}	..	..
Italy	31 231	33 764	34 665	36 153	37 851	39 023	40 047 ^p
Japan	59 254	63 045	61 830	62 833	62 752	61 486	61 585
Korea	13 182 ^g	25 785	26 939	28 246	32 977	34 367	35 574
Luxembourg	303 ^o	909 ^o	1 036 ^o	1 173 ^o	1 178 ^o	1 196 ^o	1 210 ^{c,o,p}
Mexico	..	..	..	..	..	..	..
Netherlands	12 627 ^a	11 416 ^o	11 424 ^o	11 228 ^o	13 496 ^{a,o}	13 485 ^o	13 264 ^{o,p}
New Zealand	..	3 600	..	3 300	..	3 300	..
Norway	..	6 270	6 332	6 556	6 670	6 780	6 650 ^p
Poland	18 823	18 429	20 180	21 407	21 804	21 884	22 614 ^p
Portugal	5 936 ^c	3 875	3 328	3 265	2 204	1 983	1 998 ^p
Slovak Republic	4 189 ^d	3 957 ^d	4 359 ^d	4 103 ^d	4 168 ^d	3 545 ^d	4 147 ^d
Slovenia	2 565	3 252	3 141	2 628 ^a	2 579	2 596	2 490 ^p
Spain	22 400	45 353	46 008	43 913	41 787	39 349	38 764 ^p
Sweden	..	2 605 ^m	3 110 ^{c,m}	3 388 ^{a,m}	3 359 ^{c,m}	3 217 ^m	3 404 ^{m,p}
Switzerland	895 ^{a,h}	..	719 ^h	..	781 ^h	..	..
Turkey	4 069	11 007	11 357	11 749	12 088	12 004	12 230
United Kingdom	29 686	18 797	18 745	16 919	16 880	16 592	16 589 ^{c,p}
United States	..	..	..	..	..	..	..
EU28 (OECD estimates)	317 630 ^b	346 681 ^b	351 181 ^b	355 889 ^b	360 052 ^b	362 637 ^b	363 275 ^b
OECD-Total	..	..	..	..	..	..	..
Argentina	16 766	29 089	31 307	33 277	34 472	35 850	..
China	282 094 ^t	368 607 ^a	390 245	414 316	446 920	467 313	479 435
Romania	7 571	8 708	8 704	10 675 ^a	11 381	12 336	11 866
Russian Federation	276 373	282 207	280 506	276 341	292 894	282 051	283 161
Singapore	1 706	2 812	2 967	3 039	3 003	3 134	..
South Africa	..	6 687	6 491	6 208	7 346
Chinese Taipei	20 709 ^d	25 331	26 439	25 645	25 246	24 727	24 876

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 1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Main Science and Technology Indicators Database, January 2016.

**Table 57. Total GBAORD (Government budget appropriations or outlays for R&D)
at current prices and PPPs**

Million USD

	2000	2011	2012	2013	2014	2015	2016
Australia	2 859.3 ^h	4 742.0 ^h	4 496.0 ^h	4 958.2 ^h	4 804.2 ^h	4 716.7 ^{b,h,p}	..
Austria	1 430.3 ^h	2 906.4 ^h	2 990.9 ^h	3 222.2 ^h	3 276.1 ^h	3 397.5 ^{b,h,p}	3 431.5 ^{b,h,p}
Belgium	1 597.8	2 852.4	2 998.2	3 093.2	3 320.4	..	..
Canada	4 589.9 ^h	7 736.9 ^h	7 746.2 ^h	7 943.3 ^h	..	..	..
Chile	..	691.5 ^v	821.9 ^v	881.4 ^v	..	..	..
Czech Republic	834.7	1 928.2	1 953.8	2 069.1	2 101.9	2 071.8 ^{b,p}	..
Denmark	1 171.2 ^c	2 440.3	2 496.7	2 649.6	2 651.3	2 676.9 ^{b,p}	..
Estonia	44.9	240.2 ^c	277.7 ^c	289.9 ^c	262.9 ^c	..	..
Finland	1 302.9	2 282.3	2 261.9	2 210.4	2 167.2	2 185.0 ^{b,p}	..
France	14 743.5	19 913.4	17 838.8	18 295.5	18 096.3	17 290.4 ^b	..
Germany	16 812.5	30 279.0	30 638.2	32 640.1	32 683.3	33 016.9 ^{b,p}	..
Greece	619.8	926.2	1 098.5	1 396.3	1 284.7	1 303.2 ^{b,p}	..
Hungary	..	662.9	767.9	1 556.2 ^t	698.5	..	..
Iceland	76.2	122.9	130.3	146.8	140.6 ^p	..	..
Ireland	314.1	945.6	909.2	880.2	876.5	866.3 ^{b,p}	..
Israel ¹	1 292.4 ^d	1 479.7 ^d	1 568.8 ^d	1 652.1 ^d	1 753.2 ^d	..	..
Italy	9 372.3	11 917.0	11 688.9	11 319.7	11 287.8	..	..
Japan	21 193.4 ^{g,h}	34 105.2 ^h	35 413.2 ^h	35 133.9 ^h	34 869.1 ^h	32 794.6 ^{b,h,p}	..
Korea	5 017.9 ^g	17 423.9	18 744.5	19 677.4	20 159.5	..	..
Luxembourg	25.1	282.7	335.8	389.9	394.1	..	..
Mexico	2 119.1	4 735.8	..	..	..	..	..
Netherlands	3 793.3	5 992.1	5 641.5	5 936.0	5 984.4	6 206.2 ^{b,p}	6 025.4 ^{b,p}
New Zealand	..	729.2	735.4	775.1	895.8	991.2 ^b	..
Norway	1 057.5	2 501.0	2 564.8	2 753.8	2 882.8	3 111.6 ^{b,p}	..
Poland	1 539.9	2 649.6	3 161.5 ^a	3 396.4	4 131.7	..	..
Portugal	1 019.8	2 830.5	2 634.3	2 708.5	2 804.3	3 016.6 ^{b,p}	..
Slovak Republic	213.0	624.1	574.2	581.3	587.6	580.7 ^{b,p}	..
Slovenia	174.0	348.1	309.3	291.3	271.1	267.3 ^{b,p}	..
Spain	5 175.9 ^c	10 302.1	8 942.4	8 436.3	8 671.7	..	..
Sweden	1 731.5	3 272.8	3 578.6	3 613.9	3 684.7	3 670.3 ^b	..
Switzerland	1 474.8	..	3 993.5	..	4 331.3	..	..
Turkey	..	4 462.2	4 408.7	5 397.8	4 824.9	4 732.8 ^{b,p}	..
United Kingdom	10 517.4	13 020.0	13 083.0	14 435.9	14 553.2 ^{c,p}	..	..
United States	83 612.5 ^{a,h}	144 379.0 ^h	143 737.0 ^h	132 477.0 ^h	136 159.0 ^h	137 172.0 ^{b,h,p}	146 478.0 ^{b,h,p}
EU28 (OECD estimates)	77 015.0	118 962.3	116 352.7	121 512.8	121 989.2	..	..
OECD-Total	200 253.6	343 234.2	344 507.3	342 905.2	347 894.2	..	..
Argentina	898.3 ^h	2 477.1 ^h	2 808.2 ^h	..	..	..	..
China	..	..	..	..	..	..	..
Romania	178.2	926.4	777.0	774.7 ^a	836.8 ^b	1 076.5 ^b	..
Russian Federation	4 685.5	18 096.8	19 280.0	20 768.3	20 566.9 ^p	..	..
Singapore
South Africa
Chinese Taipei	2 967.0 ^d	7 362.6	7 350.6	7 310.8	7 356.5	7 934.8	..

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, *Main Science and Technology Indicators Database*, January 2016.

Table 58. Defence Budget R&D

As a percentage of total GBAORD (Government budget appropriations or outlays for R&D)

Percentage

	2000	2011	2012	2013	2014	2015	2016
Australia	7.1 ^h	6.8 ^h	6.6 ^h	6.2 ^h	6.2 ^h	6.6 ^{h,p}	..
Austria	0.0 ^h	0.0 ^h	0.0 ^h	0.0 ^h	0.0 ^h	0.0 ^{h,p}	0.1 ^{h,p}
Belgium	0.3	0.2	0.2	0.2	0.2	..	..
Canada	4.8 ^h	3.0 ^h	3.4 ^h	3.1 ^h	..	..	..
Chile	..	0.0 ^v	0.0 ^v	0.0 ^v	..	..	..
Czech Republic	2.2	1.7	1.6	1.5	1.4	1.4 ^p	..
Denmark	0.5 ^c	0.3	0.3	0.3	0.3	0.3 ^p	..
Estonia	..	0.3 ^c	0.3 ^c	0.5 ^c	1.3 ^c	..	..
Finland	1.3	2.5	2.6	1.9	2.1	1.9 ^p	..
France	21.4	6.8 ^v	7.1 ^v	6.3 ^v	6.6 ^v	7.2 ^v	..
Germany	7.8	3.9 ^s	3.9 ^s	3.7 ^s	3.9 ^s	3.2 ^{p,s}	..
Greece	0.4	0.9	0.7	0.4	0.1	0.1 ^p	..
Hungary	..	0.1	0.3	0.2 ^t	0.1	..	..
Iceland	0.0	0.0	0.0	0.0	0.0 ^p	..	..
Ireland	0.0	0.0	0.0	0.0	0.0	0.0 ^p	..
Israel ¹	..	..	..	..	..	..	..
Italy	0.8	0.7	0.7	0.8	0.8	..	..
Japan	4.1 ^{g,h,m}	2.6 ^{h,m}	2.9 ^{h,m}	4.6 ^{h,m}	4.4 ^{h,m}	4.4 ^{h,m,p}	..
Korea	20.5 ^g	13.8 ^c	14.8	14.8	13.5	..	..
Luxembourg	0.0	0.0	0.0	0.0	0.0	..	..
Mexico	0.0	0.0	..	..	..	..	..
Netherlands	1.8	1.5	1.7	1.2	1.2	1.2 ^p	1.2 ^p
New Zealand	..	0.0	0.0	0.0	0.0	0.0	..
Norway	5.0	4.3	4.4	4.2	4.0	3.9 ^p	..
Poland	..	..	7.2 ^a	5.2	4.8	..	..
Portugal	1.2	0.3	0.2	0.2	0.3	0.3 ^{c,p}	..
Slovak Republic	.. ⁿ	1.9	2.2	1.4	1.4	1.3 ^p	..
Slovenia	0.1	0.5	0.7	0.7	0.2	0.4 ^p	..
Spain	26.2 ^c	1.7	1.7	1.4	1.3	..	..
Sweden	7.1	7.8 ^v	8.1 ^v	4.0 ^v	3.8 ^v	3.3 ^v	..
Switzerland	0.7	..	0.4	..	0.5	..	..
Turkey	..	20.5	17.5	30.1	13.6	21.0 ^p	..
United Kingdom	35.6	14.5	16.2	15.3	16.9 ^{c,p}	..	..
United States	51.6 ^{a,h}	56.8 ^h	54.7 ^h	52.7 ^h	51.2 ^h	50.9 ^{h,p}	51.8 ^{h,p}
EU28 (OECD estimates)	12.9	4.5	4.8	4.4	4.6	..	..
OECD-Total	27.7	26.9	26.0	23.9	23.3	..	..
Argentina	1.0 ^h	1.6 ^h	1.4 ^h	..	..	..	..
China	..	..	..	..	..	..	..
Romania	1.6	2.0	4.9	1.4 ^a	1.8	1.6	..
Russian Federation	38.3
Singapore
South Africa
Chinese Taipei	..	5.8	3.3	2.9	2.6	2.5	..

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Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 59. Civil Budget R&D

As a percentage of total GBAORD (Government budget appropriations or outlays for R&D)

Percentage

	2000	2011	2012	2013	2014	2015	2016
Australia	92.9 ^h	93.2 ^h	93.4 ^h	93.8 ^h	93.8 ^h	93.4 ^{h,p}	..
Austria	100.0 ^h	100.0 ^h	100.0 ^h	100.0 ^h	100.0 ^h	100.0 ^{h,p}	99.9 ^{h,p}
Belgium	99.7	99.8	99.8	99.8	99.8	..	..
Canada	95.2 ^h	97.0 ^h	96.6 ^h	96.9 ^h	..	..	..
Chile	..	100.0 ^v	100.0 ^v	100.0 ^v	..	..	..
Czech Republic	97.8	98.3	98.4	98.5	98.6	98.6 ^p	..
Denmark	99.5 ^c	99.7	99.7	99.7	99.7	99.7 ^p	..
Estonia	..	99.7 ^c	99.7 ^c	99.5 ^c	98.7 ^c	..	..
Finland	98.7	97.5	97.4	98.1	97.9	98.1 ^p	..
France	78.6	93.2 ^v	92.9 ^v	93.7 ^v	93.4 ^v	92.8 ^v	..
Germany	92.2	96.1 ^s	96.1 ^s	96.3 ^s	96.1 ^s	96.8 ^{p,s}	..
Greece	99.6	99.1	99.3	99.6	99.9	99.9 ^p	..
Hungary	..	99.9	99.7	99.8 ^t	99.9	..	..
Iceland	100.0	100.0	100.0	100.0	100.0 ^p	..	..
Ireland	100.0	100.0	100.0	100.0	100.0	100.0 ^p	..
Israel ¹	..	..	..	..	..	..	..
Italy	99.2	99.3	99.3	99.2	99.2	..	..
Japan	95.9 ^{g,h}	97.4 ^h	97.1 ^h	95.4 ^h	95.6 ^h	95.6 ^{h,p}	..
Korea	79.5 ^g	86.2 ^c	85.2	85.2	86.5	..	..
Luxembourg	100.0	100.0	100.0	100.0	100.0	..	..
Mexico	100.0	100.0	..	..	..	..	..
Netherlands	98.2	98.5	98.3	98.8	98.8	98.8 ^p	98.8 ^p
New Zealand	..	100.0	100.0	100.0	100.0	100.0	..
Norway	95.0	95.7	95.6	95.8	96.0	96.1 ^p	..
Poland	..	..	92.8 ^a	94.8	95.2	..	..
Portugal	98.8	99.7	99.8	99.8	99.7	99.7 ^{c,p}	..
Slovak Republic	.. ⁿ	98.1	97.8	98.6	98.6	98.7 ^p	..
Slovenia	99.9	99.5	99.3	99.3	99.8	99.6 ^p	..
Spain	73.8 ^c	98.3	98.3	98.6	98.7	..	..
Sweden	92.9	92.2 ^v	91.9 ^v	96.0 ^v	96.2 ^v	96.7 ^v	..
Switzerland	99.3	..	99.6	..	99.5	..	..
Turkey	..	79.5	82.5	69.9	86.4	79.0 ^p	..
United Kingdom	64.4	85.5	83.8	84.7	83.1 ^{c,p}	..	..
United States	48.4 ^{a,h}	43.2 ^h	45.3 ^h	47.3 ^h	48.8 ^h	49.1 ^{h,p}	48.2 ^{h,p}
EU28 (OECD estimates)	87.1	95.5	95.2	95.6	95.4	..	..
OECD-Total	72.3	73.1	74.0	76.1	76.7	..	..
Argentina	99.0 ^h	98.4 ^h	98.6 ^h	..	..	..	..
China	..	..	..	..	..	..	..
Romania	98.4	98.0	95.1	98.6 ^a	98.2	98.4	..
Russian Federation	61.7
Singapore
South Africa
Chinese Taipei	..	94.2	96.7	97.1	97.4	97.5	..

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Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 60. Civil GBAORD by socio-economic objectives (million current PPP\$)
2015 or latest year available

	Economic development	Health and environment	Education and society	Space programmes	Non-oriented research	General university funds
Australia	1 299.2 ^{b, h, p}	1 263.8 ^{b, h, p}	88.7 ^{b, h, p}	19.6 ^{b, h, p}	421.3 ^{b, h, p}	1 381.7 ^{b, h, p}
Austria	655.0 ^{b, h, p}	256.6 ^{b, h, p}	96.8 ^{b, h, p}	27.4 ^{b, h, p}	442.4 ^{b, h, p}	1 950.5 ^{b, h, p}
Belgium	1 275.0	162.7	189.0	276.8	833.8	578.0
Canada	2 240.2 ^h	1 784.5 ^h	492.0 ^h	295.4 ^h	679.6 ^h	2 202.4 ^c
Chile	198.2	140.3	35.6	16.5	266.2	143.0
Czech Republic	470.3 ^{b, p}	223.9 ^{b, p}	136.2 ^{b, p}	32.6 ^{b, p}	694.8 ^{b, p}	484.6 ^{b, p}
Denmark	352.4 ^{b, p}	434.4 ^{b, p}	219.8 ^{b, p}	30.2 ^{b, p}	456.4 ^{b, p}	1 175.1 ^{b, p}
Estonia	53.6 ^c	43.9 ^c	31.7 ^c	3.2 ^c	126.9 ^c	0.0 ^c
Finland	706.7 ^{b, p}	128.8 ^{b, p}	132.5 ^{b, p}	21.8 ^{b, p}	523.7 ^{b, p}	630.7 ^{b, p}
France	2 853.6 ^{b, v}	2 006.4 ^{b, v}	946.1 ^{b, v}	1 819.8 ^{b, v}	3 654.9 ^{b, v}	4 432.1 ^{b, v}
Germany	7 119.8 ^{b, p, s}	3 310.2 ^{b, p, s}	1 513.3 ^{b, p, s}	1 560.5 ^{b, p, s}	5 898.2 ^{b, p, s}	13 085.0 ^{b, p, s}
Greece	187.5 ^{b, p}	185.5 ^{b, p}	262.3 ^{b, p}	26.5 ^{b, p}	119.0 ^{b, p}	520.9 ^{b, p}
Hungary	105.9	123.1	28.3	18.2	288.7	133.3
Iceland	27.3 ^p	14.1 ^p	18.3 ^p	.. ⁿ	27.7 ^p	53.2 ^p
Ireland	320.4 ^{b, p}	63.3 ^{b, p}	33.1 ^{b, p}	20.4 ^{b, p}	261.8 ^{b, p}	167.3 ^{b, p}
Israel	667.0	45.3	58.6	4.4	61.8	916.2
Italy	2 216.0	2 008.1	937.0	1 019.7	249.7	4 764.0
Japan	7 751.6 ^{b, h, p}	2 154.1 ^{b, h, p}	216.3 ^{b, h, p}	2 031.5 ^{b, h, p}	7 217.1 ^{b, h, p}	11 993.1 ^{b, h, p}
Korea	8 836.8	2 378.9	1 408.9	508.2	4 309.0 ^{c, o}	.. ⁿ
Luxembourg	66.1	84.3	91.8	1.4	83.4	67.1
Mexico	1 519.1	725.5	132.9	..	..ⁿ	2 358.4 ^o
Netherlands	861.7 ^{b, p}	319.8 ^{b, p}	175.4 ^{b, p}	162.8 ^{b, p}	1 104.1 ^{b, p}	3 330.7 ^{b, p}
New Zealand	269.7 ^b	211.0 ^b	16.0 ^b	0.0 ^b	251.8 ^b	242.5 ^b
Norway	644.9 ^{b, p}	648.2 ^{b, p}	234.1 ^{b, p}	68.3 ^{b, p}	409.9 ^{b, p}	986.2 ^{b, p}
Poland	915.4	891.1	416.2	86.7	1 572.3	52.7
Portugal	515.8 ^{b, p}	504.6 ^{b, p}	267.6 ^{b, p}	13.4 ^{b, p}	573.4 ^{b, p}	1 132.8 ^{b, p}
Slovak Republic	83.2 ^{b, p}	64.7 ^{b, p}	43.2 ^{b, p}	2.4 ^{b, p}	97.0 ^{b, p}	282.7 ^{b, p}
Slovenia	67.0 ^{b, p}	42.2 ^{b, p}	19.1 ^{b, p}	0.6 ^{b, p}	135.6 ^{b, p}	1.7 ^{b, p}
Spain	1 652.8	1 716.0	284.0	411.3	2 029.6	2 468.9
Sweden	513.0 ^{b, v}	164.8 ^{b, v}	99.1 ^{b, v}	30.1 ^{b, v}	819.8 ^{b, v}	1 839.2 ^{b, v}
Switzerland	157.8	24.4	73.6	136.4	1 152.9	2 765.2
Turkey	952.8 ^{b, p}	243.4 ^{b, p}	198.0 ^{b, p}	11.9 ^{b, p}	429.8 ^{b, p}	1 903.4 ^{b, p}
United Kingdom	1 921.4 ^{c, p}	4 049.8 ^{c, p}	609.3 ^{c, p}	463.4 ^c	1 708.5 ^{c, p}	3 347.9 ^{c, p}
United States	8 474.0 ^{b, h, p}	36 860.0 ^{b, h, p}	2 075.0 ^{b, h, p}	11 991.0 ^{b, h, p}	11 208.0 ^{b, h, p}	0.0 ^{b, h}
EU28 (OECD estimates)	23 146.0	16 731.3	6 423.8	6 046.4	22 321.1	40 833.9
OECD total	56 008.7	62 707.2	11 033.0	20 376.3	48 627.0	67 698.9
Non-member economies						
Argentina	1 232.3 ^h	574.1 ^h	134.7 ^h	217.9 ^h	539.6 ^h	69.7 ^h
China	..	..	..	..	..	..
Romania	246.6 ^b	117.4 ^b	112.2 ^b	38.7 ^b	544.3 ^b	..
Russian Federation	1 986.6	421.3	516.4	3 340.8	..	..
Singapore	..	..	..	..	..	..
South Africa	..	..	..	..	..	..
Chinese Taipei	2 878.0	1 761.1	398.3	187.7	1 756.7	752.6

Source: OECD, Main Science and Technology Indicators Database, January 2016.

Table 61. R&D expenditure of foreign affiliates at current prices and PPPs

Million USD

	2000	2008	2009	2010	2011	2012	2013
Australia	..	4 149.8	3 734.3	3 529.0	3 698.1	..	3 539.7 ^P
Austria	..	..	3 132.9	..	3 410.2	..	4 275.4 ^P
Belgium	..	..	2 866.0	..	4 411.3 ^P	..	..
Canada	2 951.4	4 973.3	4 421.0	4 548.1	4 597.1	4 938.9 ^P	4 854.0 ^P
Chile	..	..	..	..	..	..	..
Czech Republic	412.5	1 328.6 ^{a,P}	1 312.1 ^P	..	..	..	..
Denmark	..	..	..	..	..	..	..
Estonia	..	..	..	..	..	..	..
Finland	401.1	834.0 ^a	622.8 ^a	..	619.4 ^P	..	..
France	..	6 583.7	8 615.8	8 912.9	9 379.9	9 728.4 ^P	10 621.4 ^P
Germany	..	..	15 162.6	..	16 882.6	..	15 342.0 ^P
Greece	..	..	..	..	..	..	..
Hungary	..	420.9	445.1 ^P	..	..	..	..
Iceland	..	..	..	..	..	..	..
Ireland	..	..	1 462.8	..	1 589.6	..	1 608.5 ^P
Israel ¹	..	4 676.3	4 615.9	4 402.4	4 794.4 ^P	..	..
Italy	..	3 165.3	3 221.1	3 310.1	3 410.7	3 466.0	3 577.8 ^P
Japan	2 528.5	6 399.5 ^a	6 572.3	5 567.1	..	6 510.4	7 472.4 ^P
Korea	..	..	..	..	..	..	..
Luxembourg	..	..	..	..	..	..	..
Mexico	..	..	..	..	..	..	..
Netherlands	1 302.9	2 038.4	1 322.5 ^a	1 391.2	1 613.3	1 723.8	1 681.4 ^P
New Zealand	..	..	..	..	..	..	..
Norway	..	520.4	497.7	552.5	679.4	679.6	..
Poland	113.7	388.0 ^a	611.7	..	442.8 ^P	..	..
Portugal	..	..	..	..	..	..	..
Slovak Republic	51.6	..	..	..	..	..	..
Slovenia	..	..	177.9 ^a	..	212.6 ^P	..	..
Spain	..	..	1 382.7	..	1 890.3 ^P	..	..
Sweden	..	..	2 998.0	..	3 637.6	..	3 847.8 ^P
Switzerland	..	1 117.4	..	..	..	1 893.0 ^P	..
Turkey	100.1	..	..	..	..	..	..
United Kingdom	5 672.8	10 663.1	11 127.9	9 536.3	12 681.8	13 045.1	14 619.9 ^P
United States	26 180.0	40 727.0	40 425.0	42 360.0	45 177.0	50 259.0	52 984.0 ^P
EU28 (OECD estimates)	..	..	..	..	..	..	..
OECD-Total	..	..	..	..	..	..	..
Argentina	..	..	..	..	..	..	..
China
Romania
Russian Federation
Singapore
South Africa
Chinese Taipei

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Activities of Foreign Affiliates database, January 2016

**Table 62. R&D expenditure of foreign affiliates
as a percentage of R&D expenditures of enterprises**

Percentage

	2000	2008	2009	2010	2011	2012	2013
Australia	..	35.5	32.1	29.5	30.5	..	27.2 ^P
Austria	..	..	52.3	..	50.0	..	50.7 ^P
Belgium	..	..	53.8	..	66.0 ^P	..	..
Canada	29.3	36.9	33.2	35.1	33.7	36.8 ^P	36.8 ^P
Chile	..	..	..	..	..	..	..
Czech Republic	36.9	60.4 ^{a,P}	58.0 ^P	..	..	..	..
Denmark	..	..	..	..	..	..	..
Estonia	..	..	..	..	..	..	..
Finland	12.7	16.0 ^a	14.5 ^a	..	14.8 ^P	..	..
France	..	22.5	28.1	27.8	27.5	27.5 ^P	28.3 ^P
Germany	..	..	27.3	..	26.1	..	22.4 ^P
Greece	..	..	..	..	..	..	..
Hungary	..	57.4	52.6 ^P	..	..	..	..
Iceland	..	..	..	..	..	..	..
Ireland	..	..	69.9	..	71.1	..	65.2 ^P
Israel ¹	..	60.2	62.0	65.9	64.9	..	..
Italy	..	24.6	24.5	24.4	24.2	23.6	23.3 ^P
Japan	3.6	5.5 ^a	6.3	5.2	..	5.6	6.0 ^P
Korea	..	..	..	..	..	..	..
Luxembourg	..	..	..	..	..	..	..
Mexico	..	..	..	..	..	..	..
Netherlands	18.7	32.6	30.2 ^a	32.3	32.5	33.5	31.3 ^P
New Zealand	..	..	..	..	..	..	..
Norway	..	28.4	26.8	29.3	33.7	31.6	..
Poland	12.1	40.1 ^a	50.5	..	44.8 ^P	..	..
Portugal	..	..	..	..	..	..	..
Slovak Republic	20.4	..	..	..	..	..	..
Slovenia	..	..	33.2 ^a	..	29.1 ^P	..	..
Spain	..	..	26.6	..	35.2 ^P	..	..
Sweden	..	..	31.9	..	38.5	..	39.0 ^P
Switzerland	..	14.4	..	..	..	20.1 ^P	..
Turkey	10.6	..	..	..	..	..	..
United Kingdom	31.3	43.9	47.0	41.1	50.8	52.1	53.8 ^P
United States	13.0	14.0	14.3	15.2	15.4	16.6	16.4 ^P
EU28 (OECD estimates)	..	..	..	..	..	..	..
OECD-Total	..	..	..	..	..	..	..
Argentina	..	..	..	..	..	..	..
China
Romania
Russian Federation
Singapore
South Africa
Chinese Taipei

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Activities of Foreign Affiliates database, January 2016

Table 63. Number of triadic patent families
By priority year

	2000	2008	2009	2010	2011	2012	2013
Australia	516	315	350	307	314 ^b	314 ^b	316 ^b
Austria	346	343	368	388	419 ^b	456 ^b	498 ^b
Belgium	455	458	478	460	477 ^b	472 ^b	467 ^b
Canada	612	686	677	553	576 ^b	583 ^b	593 ^b
Chile	2	9	11	15	15 ^b	13 ^b	12 ^b
Czech Republic	10	28	17	14	34 ^b	39 ^b	45 ^b
Denmark	290	344	258	301	308 ^b	322 ^b	331 ^b
Estonia	1	3	3	3	7 ^b	7 ^b	6 ^b
Finland	433	253	224	226	238 ^b	248 ^b	258 ^b
France	2 925	2 883	2 721	2 453	2 555 ^b	2 521 ^b	2 466 ^b
Germany	7 637	5 471	5 562	5 474	5 537 ^b	5 561 ^b	5 525 ^b
Greece	11	16	15	5	11 ^b	10 ^b	10 ^b
Hungary	42	31	51	37	43 ^b	44 ^b	43 ^b
Iceland	13	5	2	3	3 ^b	3 ^b	3 ^b
Ireland	51	84	86	64	70 ^b	72 ^b	73 ^b
Israel ¹	385	369	376	351	369 ^b	396 ^b	412 ^b
Italy	832	760	736	682	672 ^b	679 ^b	685 ^b
Japan	17 915	15 940	16 112	16 740	17 140 ^b	16 722 ^b	16 197 ^b
Korea	908	1 826	2 109	2 459	2 665 ^b	2 866 ^b	3 107 ^b
Luxembourg	22	20	20	19	23 ^b	21 ^b	20 ^b
Mexico	9	17	15	16	17 ^b	18 ^b	20 ^b
Netherlands	1 264	1 128	1 047	823	958 ^b	955 ^b	947 ^b
New Zealand	72	72	55	44	51 ^b	56 ^b	61 ^b
Norway	137	88	129	116	116 ^b	118 ^b	119 ^b
Poland	9	37	32	61	62 ^b	71 ^b	78 ^b
Portugal	5	30	17	16	25 ^b	27 ^b	28 ^b
Slovak Republic	2	4	2	8	13 ^b	14 ^b	15 ^b
Slovenia	9	16	17	16	15 ^b	15 ^b	17 ^b
Spain	194	268	254	237	246 ^b	243 ^b	240 ^b
Sweden	793	835	794	645	640 ^b	633 ^b	621 ^b
Switzerland	1 004	997	970	1 062	1 108 ^b	1 154 ^b	1 195 ^b
Turkey	5	27	28	34	41 ^b	41 ^b	45 ^b
United Kingdom	2 362	1 695	1 722	1 649	1 654 ^b	1 693 ^b	1 726 ^b
United States	15 625	13 828	13 514	12 725	13 012 ^b	13 709 ^b	14 211 ^b
EU28 (OECD estimates)	17 709	14 728	14 448	13 600	14 025 ^b	14 126 ^b	14 123 ^b
OECD-Total	54 897	48 888	48 769	48 009	49 433^b	50 101^b	50 390^b
Argentina	8	12	17	8	9 ^b	9 ^b	9 ^b
China	87	827	1 296	1 420	1 545 ^b	1 715 ^b	1 897 ^b
Romania	0	6	7	6	8 ^b	11 ^b	12 ^b
Russian Federation	85	57	88	88	100 ^b	109 ^b	111 ^b
Singapore	84	110	101	95	113 ^b	121 ^b	137 ^b
South Africa	51	52	35	31	44 ^b	44 ^b	44 ^b
Chinese Taipei	50	313	384	456	483 ^b	474 ^b	451 ^b

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Patent database, Autumn 2015

Table 64. Share of countries in triadic patent families
By priority year

Percentage

	2000	2008	2009	2010	2011	2012	2013
Australia	0.93	0.62	0.68	0.60	0.60 ^b	0.59 ^b	0.59 ^b
Austria	0.62	0.67	0.72	0.76	0.80 ^b	0.85 ^b	0.92 ^b
Belgium	0.82	0.90	0.93	0.91	0.91 ^b	0.88 ^b	0.87 ^b
Canada	1.10	1.35	1.32	1.09	1.10 ^b	1.09 ^b	1.10 ^b
Chile	0.00	0.02	0.02	0.03	0.03 ^b	0.02 ^b	0.02 ^b
Czech Republic	0.02	0.05	0.03	0.03	0.06 ^b	0.07 ^b	0.08 ^b
Denmark	0.52	0.68	0.50	0.59	0.59 ^b	0.60 ^b	0.61 ^b
Estonia	0.00	0.01	0.01	0.01	0.01 ^b	0.01 ^b	0.01 ^b
Finland	0.78	0.50	0.44	0.45	0.45 ^b	0.46 ^b	0.48 ^b
France	5.26	5.68	5.31	4.83	4.86 ^b	4.71 ^b	4.57 ^b
Germany	13.73	10.77	10.85	10.79	10.54 ^b	10.40 ^b	10.23 ^b
Greece	0.02	0.03	0.03	0.01	0.02 ^b	0.02 ^b	0.02 ^b
Hungary	0.08	0.06	0.10	0.07	0.08 ^b	0.08 ^b	0.08 ^b
Iceland	0.02	0.01	0.00	0.01	0.01 ^b	0.01 ^b	0.01 ^b
Ireland	0.09	0.17	0.17	0.13	0.13 ^b	0.14 ^b	0.13 ^b
Israel ¹	0.69	0.73	0.73	0.69	0.70 ^b	0.74 ^b	0.76 ^b
Italy	1.50	1.50	1.43	1.34	1.28 ^b	1.27 ^b	1.27 ^b
Japan	32.21	31.38	31.42	32.98	32.62 ^b	31.27 ^b	30.00 ^b
Korea	1.63	3.59	4.11	4.85	5.07 ^b	5.36 ^b	5.75 ^b
Luxembourg	0.04	0.04	0.04	0.04	0.04 ^b	0.04 ^b	0.04 ^b
Mexico	0.02	0.03	0.03	0.03	0.03 ^b	0.03 ^b	0.04 ^b
Netherlands	2.27	2.22	2.04	1.62	1.82 ^b	1.79 ^b	1.75 ^b
New Zealand	0.13	0.14	0.11	0.09	0.10 ^b	0.11 ^b	0.11 ^b
Norway	0.25	0.17	0.25	0.23	0.22 ^b	0.22 ^b	0.22 ^b
Poland	0.02	0.07	0.06	0.12	0.12 ^b	0.13 ^b	0.14 ^b
Portugal	0.01	0.06	0.03	0.03	0.05 ^b	0.05 ^b	0.05 ^b
Slovak Republic	0.00	0.01	0.00	0.01	0.02 ^b	0.03 ^b	0.03 ^b
Slovenia	0.02	0.03	0.03	0.03	0.03 ^b	0.03 ^b	0.03 ^b
Spain	0.35	0.53	0.50	0.47	0.47 ^b	0.45 ^b	0.44 ^b
Sweden	1.43	1.64	1.55	1.27	1.22 ^b	1.18 ^b	1.15 ^b
Switzerland	1.80	1.96	1.89	2.09	2.11 ^b	2.16 ^b	2.21 ^b
Turkey	0.01	0.05	0.05	0.07	0.08 ^b	0.08 ^b	0.08 ^b
United Kingdom	4.25	3.34	3.36	3.25	3.15 ^b	3.17 ^b	3.20 ^b
United States	28.09	27.22	26.35	25.07	24.77 ^b	25.64 ^b	26.32 ^b
EU28 (OECD estimates)	31.84	28.99	28.17	26.80	26.70 ^b	26.42 ^b	26.16 ^b
OECD-Total	98.69	96.24	95.10	94.59	94.09^b	93.69^b	93.33^b
Argentina	0.01	0.02	0.03	0.02	0.02 ^b	0.02 ^b	0.02 ^b
China	0.16	1.63	2.53	2.80	2.94 ^b	3.21 ^b	3.51 ^b
Romania	0.00	0.01	0.01	0.01	0.02 ^b	0.02 ^b	0.02 ^b
Russian Federation	0.15	0.11	0.17	0.17	0.19 ^b	0.20 ^b	0.21 ^b
Singapore	0.15	0.22	0.20	0.19	0.22 ^b	0.23 ^b	0.25 ^b
South Africa	0.09	0.10	0.07	0.06	0.08 ^b	0.08 ^b	0.08 ^b
Chinese Taipei	0.09	0.62	0.75	0.90	0.92 ^b	0.89 ^b	0.84 ^b

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Patent database, Autumn 2015

Table 65. Number of patents in the ICT sector - applications filed under the PCT
By priority year

	2000	2008	2009	2010	2011	2012	2013
Australia	630	574	533	498	511	565	546
Austria	190	293	271	264	314	310	323
Belgium	148	228	258	280	333	323	310
Canada	935	1 146	1 120	1 293	1 315	1 353	1 334
Chile	4	11	9	14	16	14	15
Czech Republic	15	43	27	30	21	45	45
Denmark	252	294	265	259	265	211	262
Estonia	5	21	24	20	17	6	20
Finland	782	813	782	860	852	880	741
France	1 520	2 097	2 068	2 091	2 248	2 226	2 191
Germany	4 018	4 059	3 947	4 181	4 341	4 283	4 149
Greece	13	24	22	17	25	32	26
Hungary	62	72	70	72	85	87	75
Iceland	12	2	4	7	4	7	4
Ireland	104	177	139	142	178	166	147
Israel ¹	874	747	692	660	829	970	924
Italy	332	568	549	550	554	574	561
Japan	4 785	13 287	14 330	16 615	17 966	18 396	16 619
Korea	892	3 355	4 043	4 523	5 325	5 368	5 457
Luxembourg	13	13	10	13	15	21	11
Mexico	17	31	28	30	31	39	40
Netherlands	1 683	1 294	1 136	943	1 072	983	1 003
New Zealand	96	64	67	62	65	63	80
Norway	164	182	179	165	141	193	181
Poland	17	48	65	83	72	60	78
Portugal	4	30	32	40	44	31	30
Slovak Republic	4	15	9	13	8	8	16
Slovenia	12	22	19	20	23	26	28
Spain	128	377	407	441	485	469	404
Sweden	1 275	1 425	1 251	1 230	1 375	1 551	1 389
Switzerland	458	478	506	517	590	658	548
Turkey	13	63	77	64	62	114	138
United Kingdom	2 197	2 047	1 765	1 843	1 893	1 902	2 086
United States	18 971	17 321	16 253	17 836	20 287	21 516	22 655
EU28 (OECD estimates)	12 793	14 014	13 152	13 431	14 270	14 279	13 968
OECD-Total	40 625	51 218	50 954	55 676	61 363	63 451	62 437
Argentina	5	9	8	15	20	6	12
China	170	3 898	6 551	8 193	10 894	11 907	13 792
Romania	3	24	16	15	19	31	27
Russian Federation	181	183	204	229	332	392	412
Singapore	166	336	288	334	307	305	298
South Africa	101	102	49	71	77	95	84
Chinese Taipei	34	159	160	207	215	240	270

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Patent database, Autumn 2015

Table 66. Number of patents in the biotechnology sector - applications filed under the PCT
By priority year

	2000	2008	2009	2010	2011	2012	2013
Australia	186	184	173	170	157	154	133
Austria	60	76	68	78	92	90	59
Belgium	134	123	129	131	137	105	96
Canada	309	311	245	240	283	221	251
Chile	1	9	14	11	17	14	16
Czech Republic	1	9	10	3	7	10	9
Denmark	178	193	124	162	170	181	172
Estonia	3	4	4	3	7	2	3
Finland	39	61	52	65	52	33	57
France	426	445	500	468	543	469	475
Germany	1 009	684	643	691	668	632	580
Greece	3	8	6	5	6	5	3
Hungary	11	14	13	9	17	12	13
Iceland	4	12	6	9	10	2	1
Ireland	13	47	31	16	33	20	26
Israel ¹	139	168	132	157	157	143	128
Italy	121	178	164	159	122	148	116
Japan	910	1 138	1 156	1 233	1 192	1 155	1 212
Korea	148	319	382	460	521	494	488
Luxembourg	1	2	1	1	2	4	1
Mexico	6	13	15	14	18	10	15
Netherlands	187	265	241	221	207	194	216
New Zealand	30	43	32	40	28	29	25
Norway	41	28	36	43	28	37	30
Poland	2	20	13	21	23	29	29
Portugal	5	15	16	9	12	12	13
Slovak Republic	1	0	1	2	3	0	3
Slovenia	4	8	8	10	7	7	8
Spain	59	186	188	183	183	185	183
Sweden	169	114	121	130	117	107	93
Switzerland	134	152	141	163	156	159	161
Turkey	1	2	2	5	4	4	10
United Kingdom	607	411	375	386	387	402	417
United States	6 196	4 342	4 070	4 255	4 408	4 250	4 564
EU28 (OECD estimates)	3 039	2 869	2 722	2 759	2 802	2 657	2 585
OECD-Total	11 139	9 587	9 113	9 552	9 773	9 313	9 604
Argentina	6	7	6	5	8	13	15
China	926	186	274	397	503	446	503
Romania	0	1	1	0	1	1	2
Russian Federation	32	47	41	67	53	65	52
Singapore	34	56	86	71	69	124	104
South Africa	9	20	17	14	11	11	14
Chinese Taipei	6	35	33	41	36	46	34

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Patent database, Autumn 2015

Table 67. Technology balance of payments: receipts
At current prices and exchange rates

Million USD

	2000	2009	2010	2011	2012	2013	2014
Australia	1 558.4	3 675.0	4 577.3	5 059.5	4 916.1	4 701.5 ^P	..
Austria	1 687.0	8 508.8	8 244.5	10 553.9	10 902.0	11 997.5	13 178.4 ^P
Belgium	4 088.4	11 854.0	11 771.5	12 979.7	14 727.1	17 080.1	19 055.9 ^P
Canada	3 143.2	2 306.9	3 000.5	2 652.8	2 637.1	2 620.9 ^P	..
Chile	..	..	..	..	..	..	..
Czech Republic	249.3	2 260.5	2 101.7	2 960.3	3 085.0	3 742.1 ^a	4 022.7 ^P
Denmark	..	7 236.3	6 222.9	7 353.7	8 196.3	8 171.9	8 288.0 ^P
Estonia	..	271.8	294.7	361.2	387.1	458.2 ^a	489.6 ^P
Finland	1 555.2	9 502.4	9 472.3	10 795.8	10 093.9	11 224.9 ^a	11 542.2 ^P
France	2 741.8	..	..	..	..	..	..
Germany	13 583.0	48 566.1	58 245.5	69 604.0	70 917.9	67 380.2 ^a	71 436.6 ^P
Greece	139.4	721.3	715.2	797.2	674.3	774.7	1 017.1 ^P
Hungary	249.3	3 631.6	4 185.5	4 549.9	4 396.0	4 839.6	5 014.8 ^P
Iceland	..	337.5	283.1	302.2	254.3	323.4 ^a	443.4 ^P
Ireland	..	37 087.3	40 878.4	49 683.4	52 786.0	63 532.4	72 508.6 ^P
Israel ¹	..	9 222.6	9 303.8	10 849.8	13 237.0	..	..
Italy	2 806.6	8 848.3	10 277.0	12 177.7	13 841.8	14 354.7	13 896.2 ^P
Japan	9 816.3	21 538.2	27 758.5	29 887.2	34 102.4	34 788.2	34 549.4 ^P
Korea	..	3 581.9	3 344.9	4 032.1	5 310.8	6 845.7 ^P	..
Luxembourg	..	1 635.6	2 363.6	2 939.7	3 988.0 ^a	4 326.7	4 578.0 ^P
Mexico	43.1	94.3	87.8	96.4	79.7	199.1 ^P	..
Netherlands	..	29 473.1	..	39 985.7	40 171.2	44 424.9	62 100.9 ^{a,P}
New Zealand	216.8	1 288.0	885.6	1 184.2	837.7 ^a	830.7 ^P	..
Norway	1 912.1	3 195.0	4 198.9	4 154.8	4 391.6	4 515.1 ^P	..
Poland	188.4	2 270.0	3 317.6	3 724.2 ^a	4 120.7	4 926.6	6 020.8 ^P
Portugal	214.5	1 489.6	1 276.2	1 540.0	1 576.7	1 805.1	1 997.3 ^P
Slovak Republic	57.1	444.8	504.5	770.0	948.1	..	..
Slovenia	12.1	295.2	265.5	301.1	316.7	..	..
Spain	2 388.4	15 807.7	15 064.2	17 702.9	16 125.7	16 171.1	19 187.5 ^P
Sweden	5 281.2	16 698.5	17 727.4	23 142.9	23 358.3	25 929.4 ^a	27 237.2 ^P
Switzerland	3 406.8	18 613.0	20 820.3	25 203.8	28 317.6	29 993.1	31 358.2 ^P
Turkey	..	..	..	..	..	..	..
United Kingdom	19 926.4	29 527.1	31 119.7	35 653.8	37 185.2	42 269.3	45 607.4 ^P
United States	43 233.0	93 949.0	100 569.0	119 936.0	122 658.0	126 229.0	136 271.0 ^P
EU28 (OECD estimates)	..	..	..	..	..	..	..
OECD-Total	..	..	..	..	..	..	..
Argentina	14.0	..	..	..	..	..	..
China	..	..	..	..	..	..	..
Romania	7.2 ^m	23.0 ^m	19.9 ^m	31.2 ^m	92.2 ^m	190.2 ^{a,P}	..
Russian Federation	204.0	606.9	627.8	592.6	688.8	773.7 ^P	..
Singapore	895.8	5 924.0
South Africa	40.2	47.5
Chinese Taipei	126.5 ^m	755.0 ^m	822.1 ^m	..	903.9 ^m	1 013.7 ^{m,P}	..

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Technology Balance of Payments Database, January 2016.

Table 68. Technology balance of payments: payments
At current prices and exchange rates

Million USD

	2000	2009	2010	2011	2012	2013	2014
Australia	2 243.1	5 514.8	7 299.8	8 817.3	9 053.6	9 640.5 ^P	..
Austria	1 234.6	5 062.2	4 656.7	5 967.8	6 728.8	7 902.7	8 040.0 ^P
Belgium	3 460.6	10 720.4	9 968.9	11 249.0	12 631.5	14 370.1	18 257.2 ^P
Canada	1 280.0	823.2	565.9	764.0	892.7	1 227.4 ^P	..
Chile	..	..	..	..	..	..	..
Czech Republic	435.4	2 521.1	2 512.6	3 137.7	3 232.2	3 119.2 ^a	3 239.6 ^P
Denmark	..	4 849.8	5 070.5	6 981.8	6 540.4	6 245.9	6 503.7 ^P
Estonia	..	172.8	191.4	341.9	309.1	294.6 ^a	362.0 ^P
Finland	1 704.4	9 061.9	7 769.1	8 146.2	8 847.6	7 695.5 ^a	6 527.6 ^P
France	2 644.2	..	..	..	..	..	..
Germany	18 215.4	40 078.2	45 207.9	53 846.8	55 606.2	54 830.4 ^a	54 364.2 ^P
Greece	407.6	1 327.2	1 383.9	1 267.1	814.0	952.1	1 144.6 ^P
Hungary	396.6	3 985.2	3 812.2	4 340.3	4 057.9	5 051.8	4 896.9 ^P
Iceland	..	140.6	179.1	215.2	239.1	201.0 ^a	294.8 ^P
Ireland	..	42 143.9	44 576.2	48 898.0	53 167.6	56 945.5	74 112.6 ^P
Israel ¹	..	1 849.7	1 884.2	2 067.2	2 451.1	..	..
Italy	3 505.4	13 328.5	13 865.5	15 201.5	12 807.2	14 230.1	14 861.9 ^P
Japan	4 113.5	5 716.6	6 038.6	5 197.0	5 622.7	5 919.8	4 842.6 ^P
Korea	..	8 438.1	10 234.3	9 900.5	11 052.0	12 038.4 ^P	..
Luxembourg	..	1 735.1	2 180.4	3 193.6	4 744.5 ^a	5 884.4	6 121.4 ^P
Mexico	406.7	1 822.1	656.4	773.0	562.3	523.9 ^P	..
Netherlands	..	25 969.7	..	29 427.8	30 877.8	33 375.4	34 718.6 ^{a,P}
New Zealand	471.2	1 080.7	1 312.1	1 860.5	1 311.7 ^a	1 209.6 ^P	..
Norway	1 190.4	1 785.2	2 269.0	2 531.0	2 974.5	2 903.0 ^P	..
Poland	1 097.1	3 780.4	5 459.2	3 639.2 ^a	3 918.1	5 284.1	5 709.5 ^P
Portugal	581.5	1 609.0	1 459.5	1 658.6	1 292.9	1 456.3	1 913.3 ^P
Slovak Republic	155.0	839.9	763.0	635.6	550.3	..	..
Slovenia	22.3	616.2	632.0	690.3	666.6	..	..
Spain	3 664.7	11 422.7	10 764.8	11 989.8	10 592.1	9 542.3	10 729.6 ^P
Sweden	5 635.1	10 222.7	9 845.2	11 554.6	12 834.5	13 393.0 ^a	16 667.0 ^P
Switzerland	5 336.9	19 291.2	21 172.0	26 436.0	28 803.0	30 119.5	34 676.9 ^P
Turkey	..	..	..	..	..	..	..
United Kingdom	9 218.8	17 207.8	18 435.4	17 826.1	19 281.3	21 788.1	19 377.0 ^P
United States	16 468.0	61 884.0	69 577.0	81 826.0	84 168.0	87 334.0	89 415.0 ^P
EU28 (OECD estimates)	..	..	..	..	..	..	..
OECD-Total	..	..	..	..	..	..	..
Argentina	1 064.5	..	..	..	..	..	..
China	..	..	..	..	..	..	..
Romania	6.0 ^m	80.3 ^m	101.0 ^m	119.5 ^m	121.0 ^m	157.8 ^{a,P}	..
Russian Federation	183.6	1 572.5	1 410.1	1 915.4	2 053.1	2 468.7 ^P	..
Singapore	6 233.1	17 075.0	..	..	..	..	..
South Africa	244.8	1 642.5
Chinese Taipei	1 304.3 ^m	3 071.8 ^m	4 479.7 ^m	..	5 079.1 ^m	5 082.4 ^{m,P}	..

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Technology Balance of Payments Database, January 2016.

**Table 69. Technology balance of payments: payments as a percentage of GERD
(Gross domestic expenditure on R&D)**

Percentage

	2000	2009	2010	2011	2012	2013	2014
Australia	37.1	..	25.7 ^c	27.0 ^c	..	29.8 ^{c,p}	..
Austria	33.3 ^c	48.7	43.6 ^c	51.9	57.2 ^c	62.2	61.6 ^{c,p}
Belgium	75.7	111.4	100.5	99.0	107.4	113.4	139.4 ^{c,p}
Canada	9.2	3.1	1.9	2.4	2.7 ^a	4.0 ^p	..
Chile	..	..	..	..	..	..	..
Czech Republic	63.5	94.5	90.6	88.5	87.4	78.4 ^a	79.0 ^p
Denmark	..	49.4	54.0	68.9	67.1	60.3	61.6 ^{c,p}
Estonia	..	63.0	62.0	64.0	63.2	68.1 ^a	95.4 ^p
Finland	41.8	96.1	84.1	81.8	100.8	86.7 ^a	75.6 ^p
France	9.3 ^a	..	..	..	..	..	..
Germany	39.1	43.1	48.8	51.3	54.7	51.8 ^a	49.4 ^{c,p}
Greece	..	64.3 ^c	77.3 ^c	65.5	47.4	48.9	58.2 ^p
Hungary	106.2 ^d	269.5	255.5	259.3	251.2	269.0	258.2 ^p
Iceland	..	41.2	..	58.8 ^{a,m}	..	69.8 ^a	91.5 ^p
Ireland	..	1 109.0 ^c	1 260.8 ^c	1 319.4 ^c	1 513.6 ^c	1 556.0 ^c	1 945.4 ^{c,p}
Israel ¹	..	21.6 ^d	20.5 ^d	19.7 ^d	22.9 ^d	..	..
Italy	30.5	49.9	53.3	55.2	48.6	51.1	53.9 ^p
Japan	2.9	3.4	3.4	2.6	2.8	3.5 ^a	2.9 ^p
Korea	..	28.4	27.0	22.0	22.5	22.2 ^p	..
Luxembourg	..	201.4	272.7	363.8	657.7 ^a	731.7	751.2 ^{c,p}
Mexico	18.8	47.3	13.8	15.5	11.0 ^{c,p}	8.3 ^{c,p}	..
Netherlands	..	179.6	..	173.0 ^a	192.1 ^a	197.3	200.1 ^{a,p}
New Zealand	..	71.1	..	89.7	..	54.9 ^p	..
Norway	..	26.8	32.1	31.2	36.0	33.6 ^p	..
Poland	99.4	130.0	158.0	92.3 ^a	88.9	115.8	111.4 ^p
Portugal	68.1 ^c	41.8	40.0	46.5	43.4	48.6	64.7 ^p
Slovak Republic	117.3	199.5	138.4	97.6	73.2	..	..
Slovenia	8.1	67.5	64.0	55.5 ^a	55.9	..	..
Spain	69.6	56.4	55.7	60.8	61.6	55.2	63.6 ^p
Sweden	..	69.0	62.7 ^c	63.2	71.9 ^c	70.0 ^{a,l}	92.3 ^p
Switzerland	84.4	..	..	..	145.9	..	..
Turkey	..	..	..	..	..	..	..
United Kingdom	34.4	42.7 ^c	45.3 ^c	40.6	45.2 ^c	48.3	38.1 ^{c,p}
United States	6.1 ^j	15.2 ^j	17.0 ^j	19.1 ^j	19.3 ^j	19.1 ^{j,p}	..
EU28 (OECD estimates)	..	..	..	..	..	..	..
OECD-Total	..	..	..	..	..	..	..
Argentina	85.3	..	..	..	..	..	..
China	..	..	..	..	..	..	..
Romania	4.4 ^m	10.4 ^m	13.3 ^m	13.1 ^{a,m}	14.6 ^m	21.3 ^{a,p}	..
Russian Federation	6.7	10.3	8.2	9.2	9.0	10.5 ^p	..
Singapore	357.1	411.0
South Africa	..	66.4
Chinese Taipei	20.6 ^{d,m}	27.6 ^m	35.8 ^m	..	34.7 ^m	33.1 ^{m,p}	..

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, Technology Balance of Payments Database, January 2016.

Table 70. Trade balance and export market share: Pharmaceutical industry

	Trade balance (Million current USD)			Export market share (Percentage)		
	2008	2011	2014	2008	2011	2014
Australia	-3 671.3	-6 927.5	-6 205.7	0.78	0.78	0.48
Austria	1 053.2	657.1	1 505.1	1.69	1.83	2.05
Belgium	6 292.5	12 537.5	10 509.9	11.67	9.95	9.64
Canada	-4 986.0	-7 377.4	-6 056.7	1.44	1.15	1.32
Chile	-602.7	-864.0	-1 057.7	0.03	0.03	0.04
Czech Republic	-2 383.2	-2 366.0	-1 807.4	0.31	0.37	0.51
Denmark	4 602.0	6 692.8	8 244.5	1.86	2.15	2.41
Estonia	-302.7	-318.8	-370.5	0.01	0.01	0.01
Finland	-1 305.7	-759.6	-1 285.2	0.27	0.33	0.21
France	8 523.0	4 090.8	3 413.3	7.79	6.88	6.63
Germany	20 354.6	16 418.4	28 598.8	15.59	14.09	14.95
Greece	-4 067.1	-3 106.1	-2 174.0	0.30	0.25	0.26
Hungary	-245.5	362.0	964.7	0.75	0.96	0.92
Iceland	-36.9	-10.2	-55.9	0.03	0.03	0.02
Ireland	20 255.1	30 470.0	23 447.4	5.73	7.46	5.44
Israel	3 476.6	5 356.7	4 293.2	1.13	1.44	1.15
Italy	-3 249.1	-4 598.6	1 978.1	3.91	4.16	4.89
Japan	-7 413.1	-17 192.9	-17 439.9	0.84	0.90	0.60
Korea	-2 407.0	-2 978.3	-3 441.0	0.23	0.26	0.33
Luxembourg	-364.1	-381.4	-372.5	0.02	0.02	0.02
Mexico	-3 153.1	-3 128.2	-3 477.2	0.35	0.40	0.37
Netherlands	619.4	2 501.2	6 845.7	5.74	3.32	4.90
New Zealand	-597.7	-637.5	-642.9	0.05	0.05	0.06
Norway	-1 102.8	-1 181.7	-1 159.8	0.16	0.14	0.18
Poland	-4 751.6	-3 867.9	-2 552.5	0.39	0.47	0.66
Portugal	-2 350.5	-2 202.1	-1 692.0	0.14	0.17	0.21
Slovak Republic	-1 371.9	-1 591.7	-1 425.7	0.09	0.10	0.11
Slovenia	1 341.9	1 561.0	1 838.0	0.53	0.54	0.58
Spain	-3 844.3	-3 314.2	-2 431.6	2.65	2.49	2.45
Sweden	4 984.7	4 443.8	4 171.8	2.13	1.80	1.59
Switzerland	25 235.0	34 822.1	41 330.3	10.05	11.67	12.33
Turkey	-4 268.1	-4 452.1	-3 859.2	0.11	0.12	0.16
United Kingdom	10 723.3	9 496.7	-317.3	7.36	7.31	6.33
United States	-22 098.8	-27 323.7	-28 073.1	8.78	8.58	8.81
OECD-Total	32 888.0	34 830.0	51 243.0	92.92	90.22	90.60
Argentina	-625.3	-1 087.2	-1 372.5	0.16	0.18	0.17
China	2 656.9	703.3	-5 428.6	1.90	2.42	2.48
Romania	-2 399.1	-2 217.5	-2 385.3	0.06	0.21	0.21
Russian Federation	-8 839.2	-13 040.1	-12 481.0	0.08	0.07	0.11
Singapore	3 070.0	4 251.8	5 619.8	1.16	1.43	1.51
South Africa	-1 445.8	-1 771.7	-1 696.6	0.05	0.10	0.08
Chinese Taipei	-1 557.7	-2 105.1	-2 275.1	0.05	0.07	0.09

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, STAN Bilateral Trade in Goods by Industry and End-Use Category Database, December 2015.

Table 71. Trade balance and export market share: Computer, electronic and optical industry

	Trade balance (Million current USD)			Export market share (Percentage)		
	2008	2011	2014	2008	2011	2014
Australia	-18 003.5	-23 730.9	-21 586.2	0.17	0.18	0.17
Austria	-2 349.2	-2 336.7	-614.1	0.54	0.44	0.47
Belgium	-5 559.5	-6 603.0	-5 050.4	0.77	0.61	0.54
Canada	-21 603.7	-28 886.4	-26 392.3	0.95	0.73	0.59
Chile	-4 006.2	-5 638.8	-5 413.4	0.02	0.01	0.02
Czech Republic	238.4	1 144.8	1 549.6	1.13	1.24	1.07
Denmark	-2 278.6	-1 725.0	-1 528.2	0.37	0.35	0.30
Estonia	-370.8	-70.0	-98.2	0.05	0.11	0.11
Finland	4 818.5	-1 774.9	-2 209.0	0.81	0.24	0.16
France	-19 606.5	-19 945.9	-17 787.2	1.93	1.75	1.51
Germany	-961.4	-11 039.1	-2 592.1	5.83	5.29	4.95
Greece	-4 748.0	-2 700.4	-2 038.1	0.04	0.04	0.05
Hungary	6 213.9	7 775.4	1 822.3	1.35	1.21	0.68
Iceland	-297.8	-237.8	-306.7	0.00	0.00	0.00
Ireland	7 080.2	4 549.9	3 702.5	1.15	0.53	0.48
Israel	2 753.6	2 877.4	3 116.7	0.46	0.48	0.45
Italy	-18 993.5	-24 942.8	-13 901.9	0.85	0.82	0.66
Japan	34 162.9	15 560.0	-14 006.2	6.15	5.30	3.90
Korea	56 035.3	63 882.7	70 619.4	5.81	5.89	5.96
Luxembourg	-463.9	-473.4	-640.1	0.04	0.04	0.02
Mexico	2 336.9	-5 044.2	-3 085.8	3.16	2.92	3.04
Netherlands	1 583.4	2 740.3	-2 302.9	3.65	3.33	2.99
New Zealand	-2 581.0	-2 830.0	-3 051.7	0.03	0.03	0.02
Norway	-4 206.2	-4 689.7	-4 821.3	0.19	0.15	0.14
Poland	-8 262.0	-5 536.8	-4 222.1	0.65	0.65	0.75
Portugal	-3 400.8	-2 122.3	-2 268.9	0.21	0.12	0.10
Slovak Republic	475.5	2 222.0	1 115.7	0.61	0.59	0.64
Slovenia	-761.1	-584.5	-368.8	0.05	0.05	0.05
Spain	-29 095.0	-16 918.2	-14 939.6	0.43	0.30	0.26
Sweden	465.3	-1 410.0	-3 913.3	0.96	0.94	0.60
Switzerland	11 448.8	16 747.9	17 986.2	1.36	1.53	1.48
Turkey	-7 402.8	-9 436.9	-12 664.6	0.13	0.11	0.12
United Kingdom	-30 296.4	-27 249.9	-31 698.2	2.02	1.68	1.51
United States	-113 916.0	-145 749.6	-161 500.9	9.20	8.54	8.14
OECD-Total	-171 551.0	-234 176.5	-259 089.6	51.08	46.17	41.92
Argentina	-5 333.7	-7 302.5	-5 820.4	0.02	0.01	0.01
China	115 622.5	147 286.8	183 517.0	21.63	24.86	27.55
Romania	-3 848.1	-1 616.3	-3 231.0	0.13	0.25	0.15
Russian Federation	-24 286.0	-24 183.4	-22 395.1	0.10	0.12	0.22
Singapore	28 757.2	32 249.6	36 014.2	6.14	5.70	5.56
South Africa	-7 067.2	-8 354.1	-7 225.0	0.06	0.07	0.08
Chinese Taipei	49 558.1	67 343.7	72 627.1	5.00	5.71	5.52

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1. Information on data for Israel: <http://dx.doi.org/10.1787/888932315602>.

Source: OECD, STAN Bilateral Trade in Goods by Industry and End-Use Category Database, December 2015.

Table 72. Trade balance and export market share: Aerospace industry

	Trade balance (Million current USD)			Export market share (Percentage)		
	2008	2011	2014	2008	2011	2014
Australia	-3 111.4	-121.9	774.7	0.36	0.40	0.42
Austria	-1 023.2	120.4	385.5	0.34	0.36	0.39
Belgium	220.3	257.1	553.6	0.68	0.50	0.65
Canada	2 339.2	3 530.1	4 158.0	4.58	4.04	3.97
Chile	-999.9	-1 061.3	-939.4	0.02	0.00	0.01
Czech Republic	51.2	110.1	164.5	0.29	0.22	0.22
Denmark	-1 182.1	-397.1	-529.4	0.09	0.12	0.11
Estonia	-24.4	-83.7	-7.5	0.00	0.00	0.00
Finland	-366.8	-167.4	-261.9	0.10	0.05	0.10
France	22 707.8	24 342.5	31 018.3	16.38	19.14	17.61
Germany	4 674.9	10 759.0	13 437.7	13.04	14.34	13.11
Greece	-474.8	60.8	-141.4	0.16	0.10	0.02
Hungary	-26.8	-13.9	-19.2	0.02	0.03	0.03
Iceland	88.9	-45.8	-74.3	0.12	0.02	0.00
Ireland	-2 454.1	-2 265.5	-732.8	0.40	0.47	0.24
Israel	464.3	1 268.8	651.8	0.53	0.67	0.50
Italy	3 252.3	3 030.4	4 272.2	2.29	2.01	1.90
Japan	-5 448.1	-1 459.3	-2 857.8	1.55	1.77	2.03
Korea	-1 565.1	-3 168.9	-1 607.7	0.32	0.41	0.54
Luxembourg	-915.3	-1 033.2	-1 548.8	0.02	0.11	0.03
Mexico	498.6	570.7	1 015.9	0.48	0.47	0.58
Netherlands	311.8	422.5	1 103.6	1.19	1.00	0.94
New Zealand	-424.6	-1 090.3	-1 869.5	0.09	0.07	0.02
Norway	-765.0	-870.3	-894.6	0.29	0.22	0.19
Poland	384.7	229.0	691.4	0.28	0.49	0.61
Portugal	-698.0	-74.1	-431.6	0.11	0.08	0.07
Slovak Republic	9.6	-17.5	-93.8	0.04	0.01	0.01
Slovenia	-211.5	-37.7	-83.0	0.03	0.01	0.01
Spain	-68.9	2 427.9	2 369.0	1.45	1.73	1.53
Sweden	11.9	-18.1	-39.8	0.37	0.28	0.21
Switzerland	292.4	-26.8	763.9	1.05	0.62	0.68
Turkey	-1 182.7	-3 640.0	-2 503.9	0.21	0.17	0.22
United Kingdom	-363.6	10 930.2	4 589.7	9.35	10.60	9.25
United States	57 521.9	53 775.5	74 613.6	33.18	29.10	32.51
OECD-Total	71 523.5	96 242.5	125 927.1	89.40	89.61	88.73
Argentina	-479.0	-115.8	-632.5	0.27	0.29	0.06
China	-9 234.5	-13 343.7	-27 443.2	0.85	0.98	1.31
Romania	-41.8	-166.1	168.5	0.06	0.04	0.08
Russian Federation	805.5	566.9	-5 055.0	0.36	0.37	0.74
Singapore	-5 762.9	-3 278.4	-2 741.5	2.27	2.46	2.49
South Africa	-1 431.2	-1 776.1	-372.9	0.25	0.14	0.17
Chinese Taipei	-484.4	-94.8	-1 228.1	0.13	0.17	0.23

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