

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

Per thousand

	2005	2012	2013	2014	2015	2016	2017
Australia	5.9	..	9.6	..	8.3	..	..
Austria	11.1 ^{d,e}	14.3 ^{d,e}	14.6 ^d	15.5 ^{d,e}	15.7 ^d	16.0 ^{d,e}	16.3 ^{d,e,p}
Belgium	10.7	12.2	12.4	13.7	14.2 ^b	14.7	15.6 ^e
Canada	11.5	10.6	10.4	10.8 ^b	11.5	9.9	..
Chile	..	0.8 ^{d,e}	0.7 ^d	0.8 ^d	0.7 ^d	0.8 ^d	0.7 ^{d,e,p}
Czech Republic	5.3 ^b	7.8	8.1	8.6	8.7	8.8	9.4 ^e
Denmark	15.3	19.8	19.3	19.3	19.7	20.2	19.8 ^{e,p}
Estonia	3.0	4.5	4.6	4.0	3.6	3.9 ^e	4.3 ^e
Finland	18.8	17.3	17.2	16.9	17.0	15.7	15.8 ^e
France	10.8	13.3	13.5	13.3	13.5	..	13.6 ^e
Germany	10.6	11.9	11.6	11.9	12.9	13.1	13.6 ^e
Greece	3.2 ^d	2.1 ^d	2.2 ^d	2.5 ^d	2.6 ^d	2.9 ^d	4.0 ^{d,e}
Hungary	2.3	6.5	7.3	6.9	6.5	6.2 ^e	7.2 ^e
Iceland	13.2	..	10.2 ^{b,d}	..	12.3 ^d	11.7	12.5 ^{d,e}
Ireland	6.7	11.3 ^e	12.2	12.5 ^e	12.5	12.0 ^e	12.5 ^e
Israel ¹	22.9 ^d	27.7 ^d	27.1 ^d	28.5 ^d	29.2 ^d	31.0 ^d	..
Italy	3.9	6.5	6.9	7.2	7.6	9.0 ^b	9.0 ^{e,p}
Japan	11.3 ^{d,e}	11.2 ^{d,e}	11.2 ^{d,e}	11.7 ^{d,e}	11.4 ^{d,e}	11.2 ^{d,e}	11.4 ^{d,e}
Korea	8.0 ^d	14.1	14.3	15.3	15.6	15.7	16.9 ^e
Latvia	1.8 ^d	1.3 ^d	1.4 ^d	2.1 ^d	1.7 ^d	1.3 ^d	1.4 ^{d,e}
Lithuania	1.1	1.8	2.4	3.3	2.7	2.5	3.7 ^e
Luxembourg	15.0	9.6 ^b	9.8	10.0	9.7	9.7	9.4 ^{e,p}
Mexico	1.7	0.7	0.7	0.6	0.7	0.9	..
Netherlands	8.0	12.2 ^b	12.5	12.3	12.8	13.3	13.7 ^{e,p}
New Zealand	3.9 ^e	..	6.1 ^e	..	6.4 ^e	..	..
Norway	10.1	10.8	11.0	11.7	12.3	12.7 ^e	13.4 ^e
Poland	1.3	2.1	2.5	3.0	3.4	4.4 ^b	5.2 ^{e,p}
Portugal	1.6	4.5	4.8	5.1	5.3	5.5	6.0 ^e
Slovak Republic	2.2 ^d	2.2 ^d	2.1 ^d	2.4 ^d	2.5 ^d	2.5	3.0 ^e
Slovenia	5.7	12.5	13.2	13.0	12.2	12.4	12.5 ^{e,p}
Spain	4.9	6.6 ^d	6.8 ^d	6.6 ^d	6.4 ^d	6.4 ^d	6.6 ^{d,e}
Sweden	19.7 ^b	18.1 ^e	18.2	18.2 ^e	18.2	20.1 ^e	19.5 ^e
Switzerland	..	13.6	..	..	14.0	..	13.4
Turkey	0.9	2.6	2.8	2.9	3.0	3.3	3.8 ^e
United Kingdom	6.8	7.5	8.2	8.6	9.0	9.0	9.1 ^p
United States	..	12.5	13.0	13.2	13.3	13.0	..
EU28 (OECD estimates)	6.8 ^e	8.5 ^e	8.8 ^e	9.0 ^e	9.3 ^e	9.7 ^e	10.0 ^e
OECD-Total	..	9.6^e	9.9^e	10.1^e	10.3^e	10.3^e	..
Argentina	..	..	..	..	..	..	..
China	..	..	..	..	..	..	..
Romania	1.9	1.5	1.4	1.4	1.4	1.5	1.5 ^p
Russian Federation	10.3	7.9	8.0	8.0	8.0	7.5	7.3
Singapore	8.4	6.9	7.0	6.8	7.2	7.0	7.0
South Africa	1.3 ^e	1.1 ^e	1.1 ^e	1.2 ^e	1.1	1.1	..
Chinese Taipei	11.1	17.7	18.2	18.7	19.2	19.6	19.9

Note: Detailed metadata:<http://metalinks.oecd.org/msti/20190731/1d92>

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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