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

FTE

	2005	2013	2014	2015	2016	2017	2018
Australia	43 687	78 839	..	70 467	..	74 991	..
Austria	32 780[d,e]	46 412[d]	49 539[d,e]	50 534[d]	51 895[d,e]	52 478[d]	55 751[d,p]
Belgium	31 613	38 497	42 391	44 508[b]	46 564	50 106	54 207[e]
Canada	142 030	138 620	144 462[b]	155 357	140 150	138 520	..
Chile	..	3 905[d]	5 087[d]	4 398[d]	4 946[d]	4 525[d]	3 925[d,p]
Colombia	..	..	..	..	..	..	..
Czech Republic	21 116[b]	33 188	35 256	36 365	37 263	39 968	42 349
Denmark	28 359	34 985	35 431	36 898	38 855	38 975[p]	39 805[p]
Estonia	1 398	2 069	1 798	1 694	1 855	2 086	2 150
Finland	32 109	30 381	29 634	29 770	27 634	28 148	28 720
France	194 991	249 991	248 145	251 444	255 805	265 496[p]	275 553[e]
Germany	304 502	360 375	371 706[e]	404 767	413 027[e]	436 571	451 057[e]
Greece	11 665[d]	6 832[d]	7 750[d]	8 131[d]	9 102[d]	13 004[d]	13 944[d]
Hungary	7 393	22 244	22 177	21 030	20 825	24 719	31 027[d]
Iceland	1 530	1 260[b,d]	..	1 604[d]	..	1 799[d]	..
Ireland	10 338	17 103	17 821[e]	18 383	18 203[e]	19 542	18 956[e]
Israel[1]	43 049[d]	65 099[d]	69 854[d]	72 914[d]	83 579[d]	94 498[d]	..
Italy	70 725[d]	124 736[d]	129 271[d]	136 725[d]	164 471[b,d]	191 960[d]	218 822[d]
Japan	609 808[d]	583 855[d]	611 027[d]	592 175[d]	586 593[d]	603 407[d]	611 500[d]
Korea	153 400[d]	288 758	314 019	323 652	328 948	355 601	383 321
Latvia	1 370[d]	981[d]	1 382[d]	1 145[d]	896[d]	956[d]	1 221[d]
Lithuania	1 190.0	2 401.0	3 307.0	2 714.0	2 630.0	3 783.0	4 304.0
Luxembourg	3 662	2 913	3 066	3 066	3 234	3 252	3 311[p]
Mexico	42 331	19 197	16 139	18 892	26 309	..	..
Netherlands	48 588	77 399	76 708	81 108	85 585	87 034	113 686[b,p]
New Zealand	6 100	10 100	..	11 000	..	14 000	..
Norway	15 399	19 041	20 597	21 637	22 171	23 766	23 766
Poland	13 966	30 250	37 253	42 054	55 758[b]	72 966[d]	85 981[d]
Portugal	6 133	16 220	17 348	18 283	19 367	22 022	23 662
Slovak Republic	3 524[d]	3 618[d]	4 133[d]	4 405[d]	4 643[d]	5 654[d]	6 524[d]
Slovenia	4 347	9 811	9 696	9 222	9 569	9 954	10 471
Spain	75 345	88 635[d]	87 642[d]	87 432[d]	90 129[d]	95 667[d]	104 474[d]
Sweden	56 106[b]	56 413	57 307[e]	57 691	64 276[e]	63 729	67 554[e]
Switzerland	..	..	..	50 825	..	49 353	..
Turkey	14 992	58 391	61 945	66 667	72 579	87 918	104 376
United Kingdom	145 401	177 948	192 221	206 153	209 584	231 234	250 059
United States	..	1 318 000	1 366 000	1 399 000	1 393 000	1 475 000	..
EU28 (OECD estimates)	1 127 705[e]	1 451 412[e]	1 500 557[e]	1 577 018[e]	1 657 729[e]	1 786 372[e]	1 934 636[e]
OECD-Total	**..**	**4 067 241[e]**	**4 226 547[e]**	**4 342 110[e]**	**4 426 465[e]**	**4 709 264[e]**	**..**
Argentina	7 155	9 923	9 979	12 214[b]	11 860	12 876	..
China	883 130[d]	2 740 563	2 896 352	2 910 799	3 012 081	3 119 809	3 424 780
Romania	16 157	10 514	10 437	10 128	10 785	11 525	12 081
Russian Federation	524 049	424 063	423 134	426 372	402 097	389 191	359 385
Singapore	17 076	21 335	21 638	23 044	22 387	22 228	23 136
South Africa	12 236	11 877	12 928	12 458	12 549	..	..
Chinese Taipei	96 714	173 329	180 435	186 804	192 127	196 992	203 456

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