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**R&D personnel in EU countries and selected OECD countries, by personnel groups and sectors<sup>1</sup>**

Country	Year	Full-time equivalents				Of which, working in the		
		Researchers	Technical and other personnel	R&D personnel total		Business enterprise sector	Higher education sector	Government and PNP <sup>2</sup> sector
		Number		Per 1,000 labour force	Share in %			
Germany	2013	354,463	234,152	<b>588,615</b>	14.1	61.2	22.1	16.7
	2014	351,923	253,329	<b>605,252</b>	14.4	61.4	21.9	16.7
	2015	387,982	252,534	<b>640,516</b>	15.2	63.2	20.9	15.9
	2016	399,605	258,289	<b>657,894</b>	15.3	62.8	21.5	15.7
	2017	419,617	266,732	<b>686,349</b>	15.9	63.6	20.9	15.4
Finland	2013	39,196	13,776	<b>52,972</b>	19.7	57.4	29.7	13.0
	2014	38,281	13,850	<b>52,130</b>	19.3	56.8	30.8	12.4
	2015	37,516	12,851	<b>50,367</b>	18.6	59.1	30.8	10.1
	2016	35,908	11,521	<b>47,429</b>	17.5	58.3	32.0	9.8
	2017	37,047	11,952	<b>48,999</b>	18.0	57.4	32.7	9.9
France	2013	265,466	151,222	<b>416,687</b>	14.2	60.0	26.4	13.6
	2014	271,772	152,130	<b>423,903</b>	14.4	58.5	28.1	13.4
	2015	277,631	151,011	<b>428,643</b>	14.5	58.7	28.1	13.2
	2016	-	-	-	-	-	-	-
	2017	288,579	146,091	<b>434,670</b>	14.6	59.5	27.4	13.0
Italy	2013	116,163	130,601	<b>246,764</b>	9.8	50.5	31.2	18.3
	2014	118,183	131,284	<b>249,467</b>	9.8	51.8	30.2	18.0
	2015	125,875	133,292	<b>259,167</b>	10.2	52.8	29.7	17.6
	2016	133,706	156,334	<b>290,040</b>	11.3	56.7	27.7	15.6
	2017	136,204	155,312	<b>291,516</b>	11.2	57.0	27.7	15.3
Sweden	2013	64,194	16,763	<b>80,957</b>	15.8	69.7	25.9	4.4
	2014	66,643	16,830	<b>83,473</b>	16.1	68.7	26.8	4.5
	2015	66,734	16,817	<b>83,551</b>	16.0	69.0	25.7	5.3
	2016	70,372	20,318	<b>90,690</b>	17.2	70.9	24.2	5.0
	2017	73,132	15,796	<b>88,928</b>	16.5	71.7	22.7	5.6
United Kingdom	2013	267,699	109,644	<b>377,343</b>	11.7	47.2	47.1	5.7
	2014	276,584	119,697	<b>396,281</b>	12.1	48.5	46.2	5.3
	2015	284,483	129,377	<b>413,860</b>	12.6	49.8	45.1	5.1
	2016	288,922	128,468	<b>417,390</b>	12.6	50.2	44.7	5.0
	2017	289,674	134,836	<b>424,510</b>	12.7	50.8	44.3	4.9

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		Researchers	Technical and other personnel	R&D personnel total		Business enterprise sector	Higher education sector	Government and PNP <sup>2</sup> sector
		Number		Per 1,000 labour force	Share in %			
Japan	2013	660,489	205,034	<b>865,523</b>	13.2	67.5	24.0	8.5
	2014	682,935	212,350	<b>895,285</b>	13.6	68.2	23.4	8.4
	2015	662,071	212,934	<b>875,005</b>	13.3	67.7	23.8	8.5
	2016	665,566	206,774	<b>872,340</b>	13.1	67.2	24.2	8.6
	2017	676,292	214,457	<b>890,749</b>	13.3	67.7	23.8	8.4
Canada	2013	163,180	69,730	<b>232,910</b>	12.2	59.5	32.1	8.4
	2014	161,982	74,488	<b>236,470</b>	12.3	61.1	30.7	8.2
	2015	162,952	81,927	<b>244,879</b>	12.7	63.4	29.7	6.9
	2016	155,128	68,018	<b>223,146</b>	11.4	60.4	32.8	6.8
	2017	-	-	-	-	-	-	-
United States	2013	1,294,353	-	-	-	-	-	-
	2014	1,339,931	-	-	-	-	-	-
	2015	1,369,267	-	-	-	-	-	-
	2016	1,371,290	-	-	-	-	-	-
	2017	-	-	-	-	-	-	-

<sup>1</sup> Some figures are revised, provisional, estimated, differently defined or only partly comparable with figures from previous years (see original edition of "Main Science and Technology Indicators 2019/1").

<sup>2</sup> PNP: private non-profit institutions.

Last update: September 2019

This table also appears in the Federal Report on Research and Innovation as Table 35.

Source: OECD (Main Science and Technology Indicators 2019/1) and calculations of the German Centre for Higher Education Research and Science Studies

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<https://www.govdata.de/dl-de/by-nc-1-0>