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R&D personnel, by personnel groups and sectors of employment¹

Sector (OECD definition)	Year (ACTUAL)	Full-time equivalents			
		Total	of which,		
			Researchers	Technicians	Others
1. Business enterprise sector ^{2 3}	1995	283,316	129,370	78,155	75,791
	2010	337,211	185,815	89,251	62,145
	2015	404,767	230,823	125,438	48,506
	2016	413,027	235,758	127,395	49,875
	2017	436,571	252,759	132,794	51,017
	2018	451,057	261,634	136,611	52,813
	2019	475,676	276,964	143,513	55,199
2. Government sector ^{4 5}	1995	75,148	37,324	20,380	17,444
	2010	90,531	51,783	12,565	26,182
	2015	101,717	54,011	20,012	27,694
	2016	103,206	53,971	20,646	28,589
	2017	106,025	54,715	21,902	29,408
	2018	109,487	57,183	22,310	29,994
	2019	112,592	59,221	22,274	31,097
3. Higher education sector ⁶	1995	100,674	64,434	13,636	22,604
	2010	120,981	90,398	11,395	19,188
	2015	134,032	103,148	10,752	20,132
	2016	141,661	109,877	11,443	20,342
	2017	143,753	112,143	11,171	20,439
	2018	147,160	114,868	11,492	20,801
	2019	147,316	114,512	10,990	21,814
4. Total	1995	459,138	231,128	112,171	115,839
	2010	548,723	327,996	113,211	107,515
	2015	640,515	387,982	156,202	96,331
	2016	657,894	399,606	159,484	98,806
	2017	686,349	419,617	165,867	100,864
	2018	707,704	433,685	170,413	103,608
	2019	735,584	450,697	176,777	108,110
of which:					
Eastern German Länder and Berlin					
1. Business enterprise sector ⁷	1995	32,611	19,768	5,402	7,443
	2010	33,662	19,661	8,764	5,236
	2015	38,707	22,692	12,444	3,570
	2016	39,052	23,143	12,356	3,554
	2017	41,680	24,553	13,478	3,649
	2018	43,099	25,392	13,911	3,795
	2019	-	-	-	-

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		Total	of which,		
			Researchers	Technicians	Others
2. Government sector ^{4 5}	1995	20,782	11,481	4,894	4,407
	2010	27,560	16,458	3,475	7,628
	2015	29,940	16,151	6,599	7,189
	2016	30,359	16,280	6,658	7,421
	2017	31,346	16,935	6,739	7,672
	2018	32,547	17,859	6,907	7,781
	2019	-	-	-	-
3. Higher education sector ⁶	1995	24,601	15,484	3,214	5,901
	2010	27,687	20,883	2,372	4,432
	2015	29,477	22,863	2,070	4,544
	2016	30,182	23,574	2,124	4,484
	2017	30,519	23,937	2,136	4,445
	2018	30,908	24,240	2,086	4,582
	2019	-	-	-	-
4. Total	1995	77,994	46,733	13,510	17,751
	2010	88,910	57,002	14,611	17,296
	2015	98,123	61,706	21,113	15,303
	2016	99,593	62,997	21,138	15,459
	2017	103,545	65,425	22,353	15,766
	2018	106,554	67,491	22,904	16,158
	2019	-	-	-	-

1 Includes personnel (FTE) which can not be distributed to Länder.

2 2010 data estimated. As of 2015: technicians and other personnel estimated in even years.

3 In 2010: distribution to personnel groups is the same as the respective previous year. Possible rounding differences.

4 Government institutions and private non-profit organisations financed primarily by the government.

5 As of 2010: the definition between technicians and other personnel has been modified for methodical reasons. Limited comparability with previous years.

6 Figures for the higher education sector refer to full-time staff of private and state universities (ACTUAL), calculated in accordance with the procedure agreed on by the Standing Conference of Ministers of Education and Cultural Affairs of the Länder in the Federal Republic of Germany (KMK), the German Council of Science and Humanities, the Federal Ministry of Education and Research (BMBF) and the Federal Statistical Office.

7 Even years estimated.

Last update: July 22, 2021

Source: Special evaluation of the Federal Statistical Office and the Stifterverband Wissenschaftsstatistik

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