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**Personnel of higher education institutions, by fields of science<sup>1</sup>**

Full-time equivalents									
Personnel group	Year	T = Total F = Female M = Male	Total	Of which,					
				Central institutions	Natural sciences	Engineering	Medicine <sup>2</sup>	Agricultural sciences	Social sciences and humanities
Academic and creative arts personnel	2019	T	237,875	12,822	34,976	52,914	57,653	5,429	74,083
		F	88,570	6,238	10,570	9,872	27,000	2,519	32,371
		M	149,306	6,584	24,406	43,042	30,652	2,910	41,712
	2020	T	244,529	13,262	35,378	54,417	60,584	5,501	75,387
		F	92,560	6,400	10,759	10,515	28,926	2,576	33,384
		M	151,969	6,862	24,619	43,902	31,659	2,925	42,003
	2021	T	250,861	13,782	35,639	55,946	62,453	5,621	77,420
		F	96,784	6,654	10,986	11,213	30,310	2,674	34,947
		M	154,076	7,128	24,653	44,733	32,143	2,947	42,473
	2022	T	252,418	14,172	35,665	55,875	63,645	5,569	77,492
		F	98,991	6,930	11,263	11,594	31,249	2,664	35,291
		M	153,426	7,242	24,402	44,281	32,396	2,904	42,200
Of which, R&D personnel, here researchers <sup>3</sup>	2019	T	114,512	-	26,553	33,124	15,528	3,266	36,041
		F	42,026	-	8,451	6,384	8,233	1,625	17,333
		M	72,486	-	18,102	26,741	7,294	1,640	18,709
	2020	T	117,638	-	26,687	34,475	16,809	3,302	36,365
		F	43,851	-	8,456	6,877	8,993	1,653	17,873
		M	73,787	-	18,232	27,598	7,815	1,649	18,492
	2021	T	120,901	-	26,856	35,779	17,299	3,399	37,568
		F	46,361	-	8,799	7,551	9,354	1,722	18,935
		M	74,540	-	18,057	28,228	7,945	1,677	18,633
	2022	T	123,388	-	27,309	36,012	17,928	3,386	38,753
		F	48,639	-	9,248	7,940	9,833	1,726	19,892
		M	74,749	-	18,061	28,072	8,094	1,660	18,861
Administrative, technical and other personnel	2019	T	237,969	72,084	12,014	13,932	125,455	3,314	11,171
		F	159,198	40,829	7,138	5,611	95,119	2,101	8,401
		M	78,771	31,255	4,876	8,321	30,337	1,213	2,771
	2020	T	245,350	74,136	12,009	14,019	130,652	3,339	11,197
		F	164,286	41,978	7,136	5,669	98,916	2,145	8,444
		M	81,065	32,158	4,874	8,351	31,736	1,194	2,753
	2021	T	250,497	76,322	11,838	14,030	133,607	3,302	11,399
		F	167,529	43,344	7,033	5,684	100,780	2,080	8,609
		M	82,968	32,979	4,805	8,346	32,827	1,223	2,790
	2022	T	253,180	78,309	11,719	13,964	134,379	3,315	11,496
		F	169,128	44,618	6,962	5,732	101,072	2,105	8,640
		M	84,052	33,691	4,757	8,232	33,307	1,210	2,856

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Full-time equivalents								
Personnel group	Year		Total	Of which,				
	T = Total	F = Female		Central institutions	Natural sciences	Engineering	Medicine <sup>2</sup>	Agricultural sciences and humanities
Of which, R&D personnel, here technical and other personnel <sup>3</sup>	2019	T	32,804	-	6,233	6,604	14,328	4,413
		F	22,028	-	3,904	2,831	11,113	3,413
		M	10,776	-	2,330	3,773	3,215	1,000
	2020	T	34,054	-	6,245	6,806	15,181	4,559
		F	22,890	-	3,893	2,921	11,728	3,528
		M	11,164	-	2,353	3,885	3,453	1,031
	2021	T	35,642	-	6,213	6,890	16,821	4,515
		F	24,050	-	3,854	2,983	12,974	3,480
		M	11,592	-	2,359	3,907	3,848	1,035
	2022	T	35,873	-	6,085	6,775	17,219	4,578
		F	24,295	-	3,762	2,977	13,243	3,536
		M	11,578	-	2,323	3,798	3,976	1,041
Total personnel with main occupation in higher education	2019	T	475,844	84,905	46,990	66,846	183,108	85,254
		F	247,767	47,067	17,708	15,483	122,119	40,772
		M	228,077	37,838	29,282	51,363	60,989	44,482
	2020	T	489,879	87,397	47,387	68,436	191,236	86,583
		F	256,846	48,378	17,895	16,184	127,842	41,828
		M	233,033	39,020	29,492	52,252	63,394	44,756
	2021	T	501,357	90,104	47,476	69,975	196,059	88,819
		F	264,313	49,997	18,019	16,897	131,090	43,556
		M	237,044	40,107	29,458	53,078	64,969	45,263
	2022	T	505,597	92,481	47,383	69,839	198,024	88,987
		F	268,119	51,548	18,224	17,326	132,321	43,931
		M	237,478	40,933	29,159	52,513	65,703	45,056
Of which, R&D personnel <sup>3</sup>	2019	T	147,316	-	32,786	39,728	29,856	40,454
		F	64,054	-	12,355	9,214	19,347	20,746
		M	83,261	-	20,431	30,514	10,509	19,708
	2020	T	151,692	-	32,933	41,281	31,989	40,924
		F	66,741	-	12,348	9,798	20,721	21,401
		M	84,951	-	20,585	31,483	11,268	19,523
	2021	T	156,543	-	33,069	42,669	34,120	42,083
		F	70,411	-	12,653	10,534	22,328	22,415
		M	86,132	-	20,416	32,135	11,792	19,668
	2022	T	159,261	-	33,394	42,787	35,146	43,331
		F	72,933	-	13,010	10,917	23,076	23,428
		M	86,327	-	20,384	31,870	12,070	19,903

<sup>1</sup> Personnel with main occupation at private and public higher education institutions (excluding interns and apprentices). Part-time employees were converted to full-time equivalents using a standard factor of 0.5.

<sup>2</sup> Including central institutions of university clinics.

<sup>3</sup> The R&D personnel was calculated in accordance with the procedure (R&D coefficients) 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. In accordance with international guidelines, personnel of central institutions are not included in R&D personnel figures.

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Source: Federal Statistical Office, special evaluation; German Centre for Higher Education Research and Science Studies, calculations

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