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**R&D personnel, by sex, sectors of employment and personnel groups**

Full-time equivalents						
Category	Year T = Total F = Female M = Male	Personnel, total	Of which in the			
			Business enterprise sector <sup>1</sup>	Higher education sector	Government sector	
R&D personnel	2001	T	480,606	307,257	101,443	71,906
		F	121,132	58,337	36,990	25,805
		M	359,474	248,920	64,453	46,101
	2010	T	548,723	337,211	120,981	90,531
		F	-	-	50,220	35,201
		M	-	-	70,761	55,330
	2017	T	686,349	436,571	143,753	106,025
		F	185,881	81,148	61,572	43,160
		M	500,468	355,423	82,180	62,865
	2018	T	707,704	451,057	147,160	109,487
		F	-	-	63,634	44,888
		M	-	-	83,526	64,598
	2019	T	735,584	475,676	147,316	112,592
		F	198,483	88,177	64,054	46,252
		M	537,101	387,499	83,261	66,341
	2020	T	733,831	467,444	151,692	114,695
		F	-	-	66,741	47,787
		M	-	-	84,951	66,908
	2021	T	753,940	478,129	156,543	119,268
		F	210,676	90,460	70,411	49,805
		M	543,264	387,669	86,132	69,463
	2022	T	785,420	505,253	159,261	120,907
		F	-	-	72,933	50,763
		M	-	-	86,328	70,144
Of which researchers	2001	T	264,385	157,836	67,962	38,587
		F	42,588	18,544	15,224	8,820
		M	221,797	139,292	52,738	29,767
	2010	T	327,996	185,815	90,398	51,783
		F	-	-	29,871	15,779
		M	-	-	60,527	36,004
	2017	T	419,617	252,759	112,143	54,715
		F	94,750	36,035	40,462	18,253
		M	324,867	216,724	71,681	36,462
	2018	T	433,685	261,634	114,868	57,183
		F	-	-	42,040	19,426
		M	-	-	72,828	37,757
	2019	T	450,697	276,964	114,512	59,221
		F	102,453	40,101	42,026	20,325
		M	348,245	236,863	72,486	38,896
	2020	T	450,796	272,171	117,638	60,988
		F	-	-	43,851	21,345
		M	-	-	73,787	39,643
	2021	T	461,645	277,043	120,901	63,701
		F	111,418	42,462	46,361	22,595
		M	350,227	234,581	74,540	41,106
	2022	T	486,011	298,163	123,388	64,460
		F	-	-	48,639	23,201
		M	-	-	74,749	41,259

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**R&D personnel, by sex, sectors of employment and personnel groups**

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1 In even-numbered years, the distribution to personnel groups is estimated, among other things, on the basis of the previous year. Rounding differences.

Last update: January 28, 2025

This table also appears in the Federal Report on Research and Innovation as Table 16.

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

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