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**Higher education expenditure on teaching and research, by types of higher education institution<sup>1</sup>**

Millions of €								
Type of institution	Year (ACTUAL) <sup>2</sup>	Total higher education expenditure	Of which,					
			Central institutions	Natural sciences	Engineering	Medicine, health sciences <sup>3</sup>	Agricultural sciences	Social sciences and humanities
Universities (excluding medical facilities), colleges of education, theology and art	2017	<b>23,077.5</b>	8,311.6	4,539.7	4,079.0	3.3	644.0	5,499.9
	2018	<b>24,073.8</b>	8,672.2	4,709.1	4,187.6	4.0	697.3	5,803.6
	2019	<b>25,165.2</b>	9,523.6	4,698.7	4,382.9	3.7	712.5	5,843.8
	2020	<b>25,829.9</b>	9,901.2	4,775.5	4,509.8	5.0	707.7	5,930.6
	2021	<b>26,530.2</b>	9,997.1	4,926.3	4,691.3	4.8	708.2	6,202.5
	2022	<b>28,088.2</b>	10,806.8	5,132.5	5,010.3	4.6	747.4	6,386.5
Medical facilities <sup>4 5</sup>	2017	<b>5,659.3</b>	-	-	-	5,659.3	-	-
	2018	<b>6,025.1</b>	-	-	-	6,025.1	-	-
	2019	<b>6,721.3</b>	-	-	-	6,721.3	-	-
	2020	<b>7,523.6</b>	-	-	-	7,523.6	-	-
	2021	<b>7,954.2</b>	-	-	-	7,954.2	-	-
	2022	<b>8,244.7</b>	-	-	-	8,244.7	-	-
Universities of applied sciences and colleges of public administration	2017	<b>7,530.0</b>	2,713.7	144.0	2,089.1	155.7	167.7	2,259.8
	2018	<b>7,939.9</b>	2,857.5	146.4	2,161.8	160.0	172.2	2,442.0
	2019	<b>8,245.9</b>	3,013.3	149.3	2,245.7	173.7	169.8	2,494.2
	2020	<b>8,777.6</b>	3,129.4	149.5	2,347.0	192.2	173.7	2,785.8
	2021	<b>9,353.8</b>	3,332.4	150.8	2,448.8	220.6	181.6	3,019.6
	2022	<b>9,223.0</b>	3,399.5	156.5	2,558.4	253.3	200.4	2,654.9
<b>Total institutions<sup>6</sup></b>	<b>2017</b>	<b>36,266.8</b>	<b>11,025.3</b>	<b>4,683.7</b>	<b>6,168.1</b>	<b>5,818.3</b>	<b>811.7</b>	<b>7,759.7</b>
	<b>2018</b>	<b>38,038.8</b>	<b>11,529.7</b>	<b>4,855.5</b>	<b>6,349.4</b>	<b>6,189.2</b>	<b>869.5</b>	<b>8,245.5</b>
	<b>2019</b>	<b>40,132.4</b>	<b>12,536.9</b>	<b>4,847.9</b>	<b>6,628.5</b>	<b>6,898.7</b>	<b>882.3</b>	<b>8,338.0</b>
	<b>2020</b>	<b>42,131.1</b>	<b>13,030.6</b>	<b>4,925.1</b>	<b>6,856.8</b>	<b>7,720.9</b>	<b>881.4</b>	<b>8,716.3</b>
	<b>2021</b>	<b>43,838.1</b>	<b>13,329.5</b>	<b>5,077.0</b>	<b>7,140.1</b>	<b>8,179.6</b>	<b>889.8</b>	<b>9,222.0</b>
	<b>2022</b>	<b>45,555.9</b>	<b>14,206.4</b>	<b>5,289.0</b>	<b>7,568.7</b>	<b>8,502.6</b>	<b>947.9</b>	<b>9,041.3</b>
Of which, R&D expenditure <sup>7 8</sup>	2017	<b>17,282.3</b>	-	4,146.9	4,270.0	3,939.2	555.4	4,370.8
	2018	<b>18,399.7</b>	-	4,322.0	4,462.9	4,274.5	609.0	4,731.3
	2019	<b>19,172.8</b>	-	4,461.0	4,746.5	4,355.5	656.1	4,953.8
	2020	<b>19,961.9</b>	-	4,532.8	4,891.6	4,799.2	652.9	5,085.4
	2021	<b>20,661.4</b>	-	4,631.6	5,070.9	5,067.2	632.5	5,259.2
	2022	<b>22,007.4</b>	-	4,906.5	5,483.3	5,270.9	681.8	5,664.9
Of which, third party funding	2017	<b>7,886.1</b>	-	1,867.3	2,321.5	1,882.9	237.9	1,576.5
	2018	<b>8,334.3</b>	-	1,966.0	2,440.7	1,962.8	254.6	1,710.1
	2019	<b>8,713.0</b>	-	2,026.3	2,576.7	2,049.3	282.6	1,778.2
	2020	<b>8,891.1</b>	-	2,013.6	2,657.9	2,187.4	289.2	1,742.9
	2021	<b>9,487.7</b>	-	2,103.5	2,817.1	2,452.7	287.3	1,827.2
	2022	<b>10,374.3</b>	-	2,282.4	3,139.9	2,558.6	319.5	2,073.9

## Higher education expenditure on teaching and research, by types of higher education institution<sup>1</sup>

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- 1 University expenditures, minus income for activities other than teaching and research (such as for treatment of patients in university clinics), and calculated on basis of university financial statistics (Hochschulfinanzstatistik).
- 2 Increases in higher education are partly methodologically conditioned by the recalculation of R&D coefficients.
- 3 Including central institutions of university clinics.
- 4 University clinics including the “human medicine” subject group at universities and comprehensive universities.
- 5 Breaks in time series are due to restructuring and to a shift from cameralistic accounting to standard commercial accounting procedures.
- 6 Not including grant funding for support of (post-) graduates and other funds of the Deutsche Forschungsgemeinschaft (DFG).
- 7 R&D expenditure 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 the procedure, expenditures of central institutions are assigned to subject areas, and amounts are added to take account of civil servant pensions and for third party funding etc. that is reported but not included in the relevant university's accounting; grant funding for (post-) graduate support is included.
- 8 Additional funding not assigned to subject areas is included in R&D expenditure.

Last update: January 24, 2025

This table also appears in the Federal Report on Research and Innovation as Table 12.

Source: Special evaluation of the Federal Statistical Office

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<https://www.govdata.de/dl-de/by-2-0>