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Higher education expenditure on teaching and research, by types of higher education institution¹

Millions of €								
Type of institution	Year (ACTUAL) ²	Total higher education expenditure	Of which,					
			Central institutions	Natural sciences	Engineering	Medicine ³	Agricultural sciences	Social sciences and humanities
Universities and comprehensive universities (excluding medical facilities), colleges of education, theology and art	2000	12,794.4	4,003.4	3,338.0	1,955.8	0.0	487.4	3,009.9
	2010	18,541.7	6,544.7	4,481.2	2,668.8	0.8	418.4	4,427.8
	2017	23,077.5	8,311.6	4,539.7	4,079.0	3.3	644.0	5,499.9
	2018	24,073.8	8,672.2	4,709.1	4,187.6	4.0	697.3	5,803.6
	2019	25,165.2	9,523.6	4,698.7	4,382.9	3.7	712.5	5,843.8
	2020	25,829.9	9,901.2	4,775.5	4,509.8	5.0	707.7	5,930.6
Of which, Eastern German Länder and Berlin	2000	2,961.6	949.5	660.4	493.5	0.0	127.8	730.6
	2010	3,821.7	1,246.7	888.3	669.5	0.0	62.4	954.8
	2017	4,561.1	1,517.4	801.8	965.3	0.0	129.3	1,147.3
	2018	4,794.2	1,631.5	834.2	972.8	0.0	136.7	1,219.0
	2019	5,039.2	1,818.0	867.4	1,022.6	0.0	142.1	1,189.2
	2020	5,163.0	1,807.7	895.5	1,059.0	0.0	137.8	1,263.1
Medical facilities ^{4 5}	2000	4,450.2	-	-	-	4,450.2	-	-
	2010	4,998.3	-	-	-	4,998.3	-	-
	2017	5,659.3	-	-	-	5,659.3	-	-
	2018	6,025.1	-	-	-	6,025.1	-	-
	2019	6,721.3	-	-	-	6,721.3	-	-
	2020	7,523.6	-	-	-	7,523.6	-	-
Of which, Eastern German Länder and Berlin	2000	1,003.9	-	-	-	1,003.9	-	-
	2010	798.2	-	-	-	798.2	-	-
	2017	1,086.9	-	-	-	1,086.9	-	-
	2018	1,148.4	-	-	-	1,148.4	-	-
	2019	1,206.3	-	-	-	1,206.3	-	-
	2020	1,403.4	-	-	-	1,403.4	-	-
Universities of applied sciences and colleges of public administration	2000	2,674.1	995.4	142.7	813.7	-	68.1	654.2
	2010	4,907.7	1,963.7	311.4	1,215.8	34.7	107.5	1,274.8
	2017	7,530.0	2,713.7	144.0	2,089.1	155.7	167.7	2,259.8
	2018	7,939.9	2,857.5	146.4	2,161.8	160.0	172.2	2,442.0
	2019	8,245.9	3,013.3	149.3	2,245.7	173.7	169.8	2,494.2
	2020	8,777.6	3,129.4	149.5	2,347.0	192.2	173.7	2,785.8
Of which, Eastern German Länder and Berlin	2000	686.8	279.6	40.5	172.7	-	25.1	168.9
	2010	990.8	361.4	58.0	251.6	6.6	26.4	286.9
	2017	1,252.3	403.2	32.2	364.5	14.7	37.1	400.7
	2018	1,325.1	418.5	32.4	381.1	14.3	40.1	438.8
	2019	1,387.7	428.4	30.1	399.6	16.8	43.2	469.7
	2020	1,654.1	471.2	29.6	414.9	18.2	45.1	675.0

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Higher education expenditure on teaching and research, by types of higher education institution¹

Millions of €								
Type of institution	Year (ACTUAL) ²	Total higher education expenditure	Of which,					
			Central institutions	Natural sciences	Engineering	Medicine ³	Agricultural sciences	Social sciences and humanities
Total institutions ⁶	2000	19,918.7	4,998.8	3,480.7	2,769.5	4,450.2	555.5	3,664.1
	2010	28,447.7	8,508.4	4,792.6	3,884.6	5,033.0	525.9	5,702.6
	2017	36,266.8	11,025.3	4,683.7	6,168.1	5,818.3	811.7	7,759.7
	2018	38,038.8	11,529.7	4,855.5	6,349.4	6,189.2	869.5	8,245.5
	2019	40,132.4	12,536.9	4,847.9	6,628.5	6,898.7	882.3	8,338.0
	2020	42,131.1	13,030.6	4,925.1	6,856.8	7,720.9	881.4	8,716.3
Of which, Eastern German Länder and Berlin	2000	4,652.3	1,229.1	700.9	666.2	1,003.9	152.9	899.5
	2010	5,610.7	1,608.1	946.3	921.1	804.8	88.8	1,241.7
	2017	6,900.3	1,920.6	834.0	1,329.8	1,101.6	166.4	1,548.0
	2018	7,267.7	2,050.1	866.6	1,353.9	1,162.6	176.7	1,657.8
	2019	7,633.2	2,246.4	897.5	1,422.1	1,223.1	185.3	1,658.9
	2020	8,220.6	2,278.9	925.1	1,473.9	1,421.7	182.8	1,938.1
Of which, R&D expenditure ^{7 8}	2000	8,352.3	-	2,365.6	1,619.1	2,304.5	270.7	1,792.4
	2010	12,731.5	-	3,698.4	2,509.3	3,279.1	344.8	2,900.0
	2017	17,282.3	-	4,146.9	4,270.0	3,939.2	555.4	4,370.8
	2018	18,399.7	-	4,322.0	4,462.9	4,274.5	609.0	4,731.3
	2019	19,172.8	-	4,461.0	4,746.5	4,355.5	656.1	4,953.8
	2020	19,961.9	-	4,532.8	4,891.6	4,799.2	652.9	5,085.4
Of which, Eastern German Länder and Berlin ⁹	2000	1,824.8	-	480.1	413.9	434.1	87.7	408.9
	2010	2,606.1	-	721.3	614.0	569.2	69.5	632.0
	2017	3,403.2	-	743.0	960.1	715.0	121.7	863.5
	2018	3,616.9	-	783.5	997.8	752.2	133.2	950.2
	2019	3,817.8	-	835.4	1,047.7	789.6	145.1	1,000.1
	2020	4,014.2	-	844.2	1,072.5	908.7	144.0	1,044.8
Of which, third party funding ¹⁰	2000	2,829.8	-	834.4	717.9	690.6	114.8	472.1
	2010	5,907.9	-	1,759.1	1,429.7	1,469.4	192.7	1,057.1
	2017	7,886.1	-	1,867.3	2,321.5	1,882.9	237.9	1,576.5
	2018	8,334.3	-	1,966.0	2,440.7	1,962.8	254.6	1,710.1
	2019	8,714.1	-	2,026.3	2,576.7	2,050.3	282.6	1,778.2
	2020	8,891.1	-	2,013.6	2,657.9	2,187.4	289.2	1,742.9

Higher education expenditure on teaching and research, by types of higher education institution¹

- 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 As of 2017, changes of the classification of scientific branches and fields: engineering includes informatics. Increases in higher education are partly methodologically conditioned by the recalculation of R&D coefficients from 2017 onwards.
- 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.
- 9 Not including allowances for DFG funds that are not included.
- 10 Not including grant funding for (post-) graduate support.

Last update: January 25, 2023

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>