

■ Table 1.6.1 1 / 3

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, health sciences 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 |
| | 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 |
| | 2021 | 26,530.2 | 9,997.1 | 4,926.3 | 4,691.3 | 4.8 | 708.2 | 6,202.5 |
| 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 |
| | 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 |
| | 2021 | 5,237.7 | 1,830.4 | 903.4 | 1,059.9 | 0.0 | 145.0 | 1,299.0 |
| Medical facilities ^{4 5} | 2000 | 4,450.2 | - | - | - | 4,450.2 | - | - |
| | 2010 | 4,998.3 | - | - | - | 4,998.3 | - | - |
| | 2018 | 6,025.1 | - | - | - | 6,025.1 | - | - |
| | 2019 | 6,721.3 | - | - | - | 6,721.3 | - | - |
| | 2020 | 7,523.6 | - | - | - | 7,523.6 | - | - |
| | 2021 | 7,954.2 | - | - | - | 7,954.2 | - | - |
| Of which, Eastern German Länder and Berlin | 2000 | 1,003.9 | - | - | - | 1,003.9 | - | - |
| | 2010 | 798.2 | - | - | - | 798.2 | - | - |
| | 2018 | 1,148.4 | - | - | - | 1,148.4 | - | - |
| | 2019 | 1,206.3 | - | - | - | 1,206.3 | - | - |
| | 2020 | 1,403.4 | - | - | - | 1,403.4 | - | - |
| | 2021 | 1,471.7 | - | - | - | 1,471.7 | - | - |
| 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 |
| | 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 |
| | 2021 | 9,353.8 | 3,332.4 | 150.8 | 2,448.8 | 220.6 | 181.6 | 3,019.6 |
| 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 |
| | 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 |
| | 2021 | 1,854.8 | 500.0 | 30.5 | 426.1 | 25.2 | 46.3 | 826.6 |

■ Table 1.6.1 2 / 3

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, health sciences ³ | Agricultural sciences | Social sciences and humanities |
| Total institutions⁶ | 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 |
| | 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 |
| | 2021 | 43,838.1 | 13,329.5 | 5,077.0 | 7,140.1 | 8,179.6 | 889.8 | 9,222.0 |
| 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 |
| | 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 |
| | 2021 | 8,564.2 | 2,330.5 | 933.8 | 1,486.0 | 1,496.9 | 191.3 | 2,125.7 |
| 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 |
| | 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 |
| | 2021 | 20,661.4 | - | 4,631.6 | 5,070.9 | 5,067.2 | 632.5 | 5,259.2 |
| 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 |
| | 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 |
| | 2021 | 4,187.6 | - | 858.3 | 1,089.4 | 991.2 | 147.8 | 1,100.8 |
| Of which, third party funding | 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 |
| | 2018 | 8,334.3 | - | 1,966.0 | 2,440.7 | 1,962.8 | 254.6 | 1,710.1 |
| | 2019 | 8,713.0 | - | 2,026.3 | 2,576.7 | 2,049.3 | 282.6 | 1,778.2 |
| | 2020 | 8,891.1 | - | 2,013.6 | 2,657.9 | 2,187.4 | 289.2 | 1,742.9 |
| | 2021 | 9,487.7 | - | 2,103.5 | 2,817.1 | 2,452.7 | 287.3 | 1,827.2 |

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 2018, 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 2018 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.

Last update: May 22, 2024

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>