



Technische
Universität
Braunschweig



About TU Braunschweig

Title of presentation | Name of speaker | Date

Key Figures 2023

- 🚩 founded in 1745
- 🎓 16,100 students | 3,200 of them international
- 👥 3,800 staff members | 2,300 of them researchers
242 of them professors
- 💰 € 417m overall budget | € 133m third-party funding



- 4 core research areas
- 6 faculties
- 86 degree programmes
- 7 interdisciplinary research centres
- 2 clusters of excellence
- 2 DFG collaborative research centres

What TU Braunschweig Stands for



- strong industrial and cooperation partner network in Europe's most active research region
- university of technology with the longest tradition in Germany
- member of the TU9 Alliance, Germany's leading 9 universities of technology



What TU Braunschweig Stands for



- **explicit STEM-focus: broad range of engineering programmes**
- **complemented by natural sciences, social sciences and humanities**
- **transdisciplinary education**
- **strong fundamental research combined with a high application focus**

History

- 1745** — Foundation of the **Collegium Carolinum**
- 1878** — The Collegium Carolinum is renamed **Herzogliche Technische Hochschule Carolo-Wilhelmina**
- 1968** — Establishment of a department for humanities and social sciences, the University gets its present name **Technische Universität Braunschweig**
- 1995** — TU Braunschweig celebrates its **250th anniversary**
- 2007** — Braunschweig becomes German »**City of Science**«
- 2007–2020** — **Foundation** of 7 interdisciplinary research centres (NFF, NFL, BRICS, LENA, PVZ, OHLF, ZeBra)
- 2018** — Success in the **excellence strategy**: clusters of excellence in aviation and metrology



Our history dates back to 1745, making us Germany's university of technology with the longest tradition.

Comprehensive University with 6 Faculties



01
10

Carl Friedrich Gauß Faculty (Mathematics, Computer Science, Business Science, Social Sciences)



Faculty of Life Sciences



Faculty of Architecture, Civil Engineering and Environmental Sciences



Faculty of Mechanical Engineering



Faculty of Electrical Engineering, Information Technology, Physics



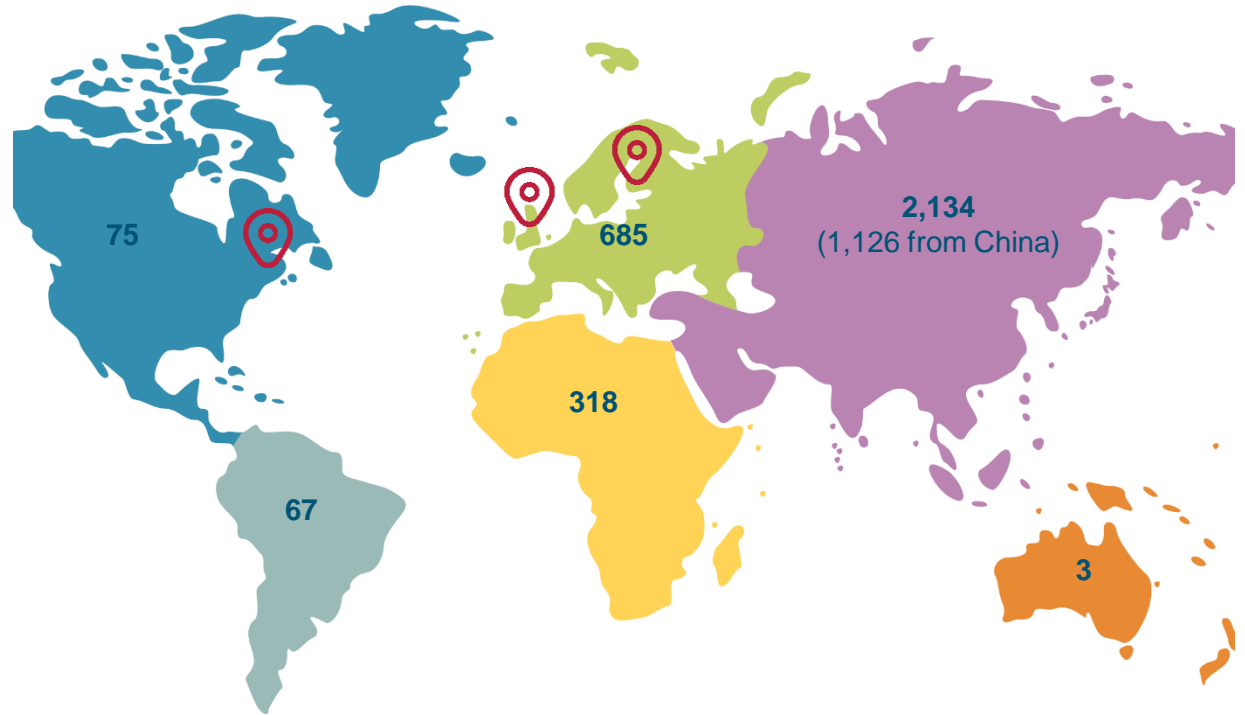
Faculty of Humanities and Education

TU Braunschweig International

3.200	international students
110	countries
20 %	of all students
310	partner universities
170	Erasmus agreements

Strategic partners: University of Strathclyde, Tampere University, University of Rhode Island

Key exchange partners: in the USA, Canada, South America, India, China, Japan and Singapore



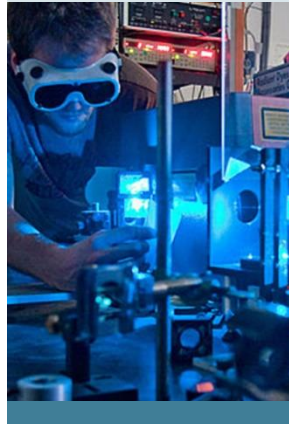
Research at TU Braunschweig: Core Research Areas

TU Braunschweig has bundled research activities into 4 interdisciplinary core research areas:

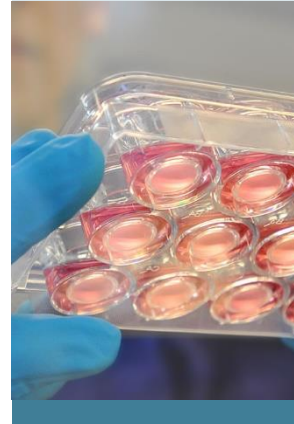
Mobility



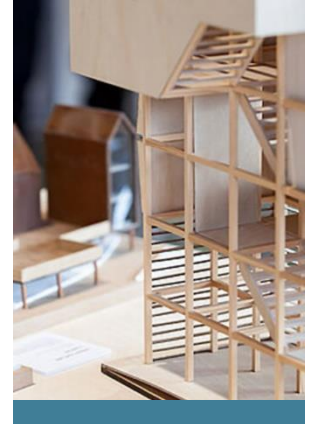
Metrology



**Engineering
for Health**



Future City



Research at TU Braunschweig: Clusters of Excellence

SE²A – Sustainable and Energy Efficient Aviation

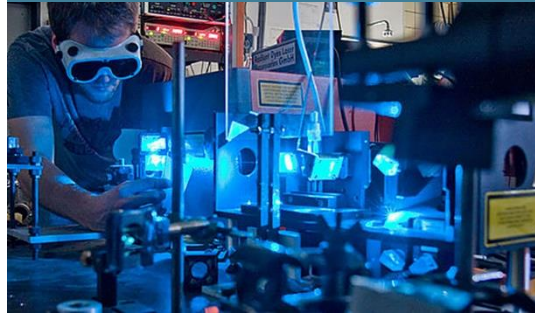
established 2018



Core research area Mobility

Quantum Frontiers (together with LU Hannover)

established 2018



Core research area Metrology

Additive Manufacturing

in preparation



Core research area Future City

Research at TU Braunschweig: Research Centres

Our interdisciplinary research centres are **long-term interdisciplinary and interdepartmental research associations**.

Professors **from at least two faculties** come together to form a Research Centre.

In most cases, **non-university research institutions are involved**.



Situated in Europe's Most Active Research Region

- More than 19,600 people work in research and development facilities in the city and region of Braunschweig.
- That is 4% of the population - the highest ratio in Europe.
- More than 30 major research institutions and companies are a part of the research region.

According to Eurostat, Braunschweig has the highest ratio of GDP spent for research and development in Europe.

TOP 5 REGIONS IN THE EU

RESEARCH AND DEVELOPMENT INTENSITY, 2015
(%, relative to GDP)



Research Region Braunschweig

TU Braunschweig is member of the Research Region Braunschweig.

Within the region, we work closely with a number of research institutes, federal institutes and other partners.



The City of Braunschweig

- population of 250,000
- second largest city in Lower Saxony
- first mentioned in 1031, important cultural and political centre since the middle ages, member of the Hanseatic League
- central position in the heart of Germany
- ranks 4th among all major German cities in terms of quality of life

