Technische Universität Braunschweig

www.tu-braunschweig.de
Research and teaching in figures

- 76 degree programmes
- 4,400 first semester students
- 20,000 students
- 120 institutes
- 2,200 scientists
- 3,700 university employees
- 101,000,000 euros in outside funding
- 349,000,000 euros in overall budget
History

1745  The Collegium Carolinum, a new type of educational institution between secondary school and university, is established.

1878  The institute is renamed Ducal Polytechnic School (Herzogliche Technische Hochschule Carolo-Wilhelmina).

1968  After the establishment of a Faculty of Humanities and Social Sciences, the TH is renamed Technische Universität.

1978  The Teacher Training College is incorporated into TU Braunschweig.
**History**

2006  Creation of »TU9«, an association of the nine leading German universities of technology.

2007  Braunschweig is named »City of Science«.

2007  Foundation of the Automotive Research Centre Niedersachsen.

2009  Foundation of the Aeronautics Research Centre Niedersachsen.

2009  Foundation of the Braunschweig Integrated Centre of Systems Biology.

2012  Foundation of the Centre of Pharmaceutical Engineering.

2016  Completion of the Open Hybrid LabFactory research campus.

2017  Record high of 20,116 students.


2018  Relocation to the new Laboratory for Emerging Nanometrology.

2019  TU Braunschweig is applying to become a University of Excellence.
Good reasons for choosing TU Braunschweig

- An excellent reputation and a long tradition – since 1745
- The university with the broadest range of engineering courses in Northern Germany
- Top-notch connections in Europe’s number one research region
- Jobs and research projects at local research institutes and companies
- First-rate contacts with the industry and hands-on training
- Short distances between the TU’s campuses in the vibrant city of Braunschweig
6 Faculties

- Carl-Friedrich Gauß: Mathematics, Computer Science, Business Science and Social Sciences
- Life Sciences
- Architecture, Civil Engineering and Environmental Sciences
- Mechanical Engineering
- Electrical Engineering, Information Technology and Physics
- Humanities and Educational Sciences
Core Research Areas

FUTURE CITY

MOBILITY

METROLOGY

INFECTION AND THERAPEUTICS
Core Research Areas and Research Centres

FUTURE CITY

METROLOGY
- Laboratory for Emerging Nanometrology (LENA)
- QuantumFrontiers

MOBILITY
- Automotive Research Centre Niedersachsen (NFF)
  - Open Hybrid LabFactory (OHLF)
  - Battery LabFactory Braunschweig (BLB)
- Aeronautics Research Centre Niedersachsen (NFL)
- SE²A - Sustainable and Energy-Efficient Aviation

INFECTION AND THERAPEUTICS
- Braunschweig Integrated Centre of Systems Biology (BRICS)
- Centre of Pharmaceutical Engineering (PVZ)
Student enrolment numbers

Total number of students

Number of first-semester students

Wintersemester

Year


Number of first-semester students

2000/01: 2,657
2001/02: 2,946
2002/03: 2,809
2003/04: 2,499
2004/05: 2,377
2005/06: 2,156
2006/07: 2,187
2007/08: 2,791
2008/09: 2,930
2009/10: 3,102
2010/11: 3,350
2011/12: 3,669
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2015/16: 5,043
2016/17: 4,947
2017/18: 4,570
2018/19: 4,493
2019/20: 4,317

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Degree Programmes

- Business Informatics  (Bachelor, Master)
- Computer Science  (Bachelor, Master)
- Mathematics  (Bachelor, Master)
- Mathematics in Finance and Industry  (Bachelor, Master)
- Media Sciences  (Bachelor)
- Media Technology and Communication  (Master)
- Organization, Governance, Education  (Master)
- Personal Development in Business  (Certificate)
- Social Sciences  (Bachelor, Master)
- Technology-orientated Management  (Master)
Life Sciences

Degree Programmes

- Biochemistry/Chemical Biology (Master)
- Biology (Bachelor, Master)
- Biotechnology (Bachelor, Master)
- Chemistry (Bachelor, Master)
- Child and Adolescent Psychotherapy (Approbation)
- Food Chemistry (Bachelor)
- Pharmacy (State examination)
- Psychology (Bachelor, Master)
- Psychotherapy (Approbation)
Architecture, Civil Engineering and Environmental Sciences

Degree Programmes

- Architecture (Bachelor, Master)
- Architecture+ (Bachelor)
- Civil Engineering (Bachelor, Master)
- Computational Sciences in Engineering (Master)
- Environmental Engineering (Bachelor, Master)
- Environmental Sciences (Bachelor, Master)
- Industrial and Civil Engineering (Bachelor, Master)
- Transportation Engineering (Bachelor, Master)
Mechanical Engineering

Degree Programmes

- Aerospace Engineering  (Master)
- Automotive Engineering  (Master)
- Biochemical Engineering  (Master)
- Biological, Chemical and Pharmaceutical Engineering  (Bachelor)
- Industrial and Mechanical Engineering  (Bachelor, Master)
- Mechanical Engineering  (Bachelor, Master)
- Metrology and Analytics  (Master)
- Pharmaceutical Engineering  (Master)
- Sustainable Energy Engineering  (Master)
Electrical Engineering, Information Technology, Physics

Degree Programmes

- Computer Systems Technology  (Bachelor, Master)
- Electrical Engineering  (Bachelor, Master)
- Electromobility  (Master)
- Electronic Automotive and Aerospace Systems  (Master)
- Industrial and Electrical Engineering  
  (Bachelor, Master)
- Physics  (Bachelor, Master)
Humanities and Educational Sciences

Degree Programmes

- 2-subject Bachelor’s degree (B.A. or B.Sc.)
- Culture of the Technical-Scientific World (Master)
- Educational Sciences (Bachelor)
- Teacher Training Course – Grundschule (Master)
- Teacher Training Course – Haupt- und Realschule (Master)
- Teacher Training Course – Gymnasium (Master)
International

- 3,300 international students from 100 countries = 17 %
- They make up 17 per cent of the student body.

Top-notch connections:

- 400 partner universities around the world
- 200 cooperation programmes with European universities (Erasmus)
- Strategic partnerships with universities in France, Great Britain, Italy, Switzerland, the USA, China, Singapore, Japan, Brazil, Mexico and Australia.
Active in the Research Region – networked in Germany

- Research Alliance of Technische Universität Braunschweig and Leibniz Universität Hannover
- Member of TU9
- Strong partner of the research industry
Europe’s Research Region

- Braunschweig is the most active research region in Europe.
- Braunschweig is also Europe’s top investment region, with the highest level of spending on research and development (Eurostat 2015/2018).

### Top 5 Regions in the EU

<table>
<thead>
<tr>
<th>Region</th>
<th>Research and Development Intensity, 2015 (% relative to GDP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Braunschweig</td>
<td>9.50</td>
</tr>
<tr>
<td>Prov. Brabant Wallon</td>
<td>6.54</td>
</tr>
<tr>
<td>Stuttgart</td>
<td>6.24</td>
</tr>
<tr>
<td>Steiermark</td>
<td>5.16</td>
</tr>
<tr>
<td>Midi-Pyrénées</td>
<td>4.75</td>
</tr>
</tbody>
</table>

EU-28: 2.04
The City of Braunschweig – university and life style

- Metropolitan city with **250,000 inhabitants** from 150 countries
- Largest city between Berlin and Hanover
- Focal point of a renowned science and research region and an important business hub
- Rich in medieval history, with an exciting present and a high-tech-oriented future
- Broad range of cultural, sporting and recreational activities