Technische Universität Braunschweig

www.tu-braunschweig.de
Technische Universität Braunschweig

1 university
6 faculties
75 degree programmes
125 institutes

2,222 scientists
3,684 university employees
4,493 first semester students
19,981 students (winter semester 2018/2019)

90,800,000 euros in outside funding
335,000,000 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«.

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 for Pharmaceutical Process Engineering.

2013  Foundation of the Research Centre for Nanometrology.

2016  Completion of the Open Hybrid LabFactory research campus.

2016  Inauguration of the Masch.Bau students‘ building.

2017  Record high of 20,116 students.
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
Research Centres and Research Fields

**MOBILITY**
- Automotive Research Centre Niedersachsen (NFF)
  - Open Hybrid LabFactory
- Aeronautics Research Centre Niedersachsen (NFL)

**INFECTIONS AND ACTIVE AGENTS**
- Braunschweig Integrated Centre of Systems Biology (BRICS)
- Centre for Pharmaceutical Process Engineering (PVZ)

**METROLOGY**
- Laboratory for Emerging Nanometrology and Analytics (LENA)

**CITY OF THE FUTURE**
Student enrolment numbers

Total number of students

Number of first-semester students

Winter semester
Mathematics, Computer Science, Business Science, Social Sciences

Degree Programmes

- Business Informatics  (Bachelor, Master)
- Computer Science  (Bachelor, Master)
- Integrated Social Sciences  (Bachelor)
- Internet Technologies and Information Systems  (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  (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  (State examination)
- Pharmacy  (State examination)
- Psychology  (Bachelor, Master)
- Psychotherapy  (Approbation)
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)
- ProWater (Master)
- Sustainable Design (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

- 3,121 international students from more than 100 countries study at TU Braunschweig
- They make up 16 per cent of the student body.

Top-notch connections:

- 300 partner universities around the world
- 200 cooperation programmes with European universities (Erasmus)
- Key exchange partners: Europe, USA, Canada, South America, China and Japan
Europe’s Research Region

- 4 higher education institutions
  TU Braunschweig, Hochschule für Bildende Künste Braunschweig, Ostfalia Hochschule für angewandte Wissenschaften, TU Clausthal

- 18 non-academic research institutes
  9 of which are either federal research facilities or federal offices:
  - Deutsches Zentrum für Luft- und Raumfahrt (DLR), Fraunhofer-Institut für Holzforschung – Wilhelm-Klauditz-Institut (WKI), Fraunhofer-Institut für Schicht- und Oberflächentechnik (IST), Georg-Eckert-Institut für Internationale Schulbuchforschung (GEI), Helmholtz-Zentrum für Infektionsforschung (HZI), Johann Heinrich von Thünen-Institut (vTI), Julius Kühn-Institut (JKI), Luftfahrtbundesamt, Physikalisch-Technische Bundesanstalt (PTB)

- 7 cultural and cultural dissemination institutes
  i.a. Herzog Anton Ulrich-Museum, Herzog August Bibliothek, phaeno Science-Center

- More than 50 companies with research departments
  i.a. Volkswagen AG, Siemens AG, Salzgitter AG
Active 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**

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

<table>
<thead>
<tr>
<th>Region</th>
<th>Intensity</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>
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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