History of TU Graz

1811: Foundation of the Joanneum by Archduke Johann
1864: Styrian government makes it a Technische Hochschule
1901: Grant to award doctorates. The first ever doctoral degree in engineering to be awarded in the Austro-Hungarian Empire.
1975: Renamed into Technische Universität Graz
2005: TU Graz and Uni Graz are founding NAWI Graz
2010: TU Graz, TU Wien and Montanuniversität Leoben are founding TU Austria
2011: TU Graz, MedUni Graz and Uni Graz are founding BioTechMed
2011: Founding member of Science Space Styria
2013: Launch of the first Austrian satellite TUGSAT-1
### Facts and Figures - Students

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
<th>Percentage of Women</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Beginners</strong> (winter term 15/16)</td>
<td>1,890</td>
<td>28.0%</td>
</tr>
<tr>
<td><strong>Students total</strong></td>
<td>13,171</td>
<td>22.8%</td>
</tr>
<tr>
<td><strong>Graduates</strong> (acad. year 14/15)</td>
<td>2,054</td>
<td></td>
</tr>
<tr>
<td>Bachelor's Programmes</td>
<td>1,118</td>
<td></td>
</tr>
<tr>
<td>Master's Programmes</td>
<td>773</td>
<td></td>
</tr>
<tr>
<td>Diploma Programmes</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Doctoral Programmes</td>
<td>147</td>
<td></td>
</tr>
</tbody>
</table>
### About Graz University of Technology

#### Facts and Figures - Staff

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Staff total (December 2015)</strong></td>
<td>3,270</td>
</tr>
<tr>
<td><strong>Academic staff</strong></td>
<td>1,554</td>
</tr>
<tr>
<td><strong>Mandated instructors and student assistants</strong></td>
<td>789</td>
</tr>
<tr>
<td><strong>Non-academic staff</strong></td>
<td>927</td>
</tr>
<tr>
<td><strong>Staff funded by ministry</strong></td>
<td>2,093</td>
</tr>
<tr>
<td><strong>Third-party funded staff</strong></td>
<td>1,177</td>
</tr>
</tbody>
</table>
About Graz University of Technology

Facts and Figures

Federal budget 2015 146.3 Mio.€
Income from third-party funds 2015 68.1 Mio.€

Floor space TU Graz buildings 236,000 m²
Seven Faculties of TU Graz

- Architecture
- Civil Engineering
- Mechanical Engineering and Economic Sciences
- Electrical and Information Engineering
- Mathematics, Physics and Geodesy
- Technical Chemistry, Chemical and Process Engineering, Biotechnology
- Computer Science and Biomedical Engineering
Tuition & Studies at TU Graz

- 18 Bachelor's programmes
  - 6 NAWI-Graz study programmes
- 31 Master's programmes
  - 11 of them taught in English
  - 13 NAWI-Graz study programmes
- Doctoral programmes in 14 Doctoral Schools
  - All of them English-speaking
Postgraduate Programmes

- Postgraduate Programmes
  - Sustainable Buildings
  - New Austrian Tunnelling Method Engineering – NATM
  - Paper and Pulp Technology
  - Cleanroom Technology
  - Traffic Accident Research
  - Traffic Accident Research – Aviation Safety
  - Hydropower
  - Space Systems and Business Engineering (SpaceTech)

- University courses and summer academies
Research at TU Graz

- 5 Fields of Expertise
- Leading position in Austrian Competence Centres (COMET programme) as cooperation of science and industry/business
- 5 ERC Grants
- 104 EU-Projects
- 4 Christian Doppler-Laboratories
- Research sponsored by the FWF:
  - Participation in 4 Special Research Areas
  - 3 START projects
  - 5 Hertha Firnberg projects
  - 4 Doctoral Programmes
  - > 50 Single Projects
Patent Portfolio of TU Graz
Period from 2005 to 2015

- Invention disclosures 636
- Patent applications 426
- Granted patents 151
- Transfer of inventions to external parties 258
Fields of Expertise

Advanced Materials Science
Human & Biotechnology
Sustainable Systems
Information, Communication & Computing
Mobility & Production

Die fünf Fields of Expertise der TU Graz
The five Fields of Expertise of TU Graz
Fields of Expertise

Five promising fields in research and teaching at Graz University of Technology characterised by

- Excellence-focused research
- Interdisciplinarity
- Intensive collaboration with business and industry
- Strategic partnerships with national and international scientific organisations
- Participation in scientific competence centres and research networks
Competence Centres in COMET programme

- **K2-Centres** => large scale centres
  - International partners of industry and business

- **K1-Centres**
  - International partners of industry and business
  - K1 budget/centre 5 - 8 mio. Euros p.a.

- **K-Projects**
  - Term of 3 to 4 years
  - K-Project budget/centre 1 million Euro p.a.

(at TU Graz:)

- 3 out of 5
- 14 out of 18
- 12 out of 24
TU Graz - Scientific Participation in COMET Competence Centres and K-Projects in Austria

Scientific Participation of TU Graz
- with shareholding under company law
- without shareholding under company law
- without participation of TU Graz

COMET Competence Centres and K-projects according to the funding programme of the Austrian Research Promotion Agency FFG as of 01.01.2016
Internationalisation

- Expansion of global relations
- Student and staff mobility
- Selected strategic co-operation agreements, numerous partner universities in the framework of different programmes (ERASMUS…)
- English-speaking doctoral schools, Joint Doctoral Programmes (e.g. Geo-Engineering and Water Managem.)
- Master's programmes taught in English
- 2,900 students from 100 countries
- 380 Incomings and 230 Outgoings in 2014/2015
International University cooperations (university-wide)

strategic co-operations

- McMaster University
- University of Waterloo
- University of Calgary
- Wayne State University
- Wright State University
- Miami University
- Syracuse University
- University of Kansas
- University of Arkansas at Fayetteville
- Western Carolina University
- University of Houston
- Tecnológico de Monterrey
- Universidad de los Andes
- Universidad Tecnica Federico Santa Maria
- Universidade Presbiteriana Mackenzie
- University of Waterloo
- Tu Darmstadt
- TH Köln
- Budapesti Muszaki és Gazdaságtudományi Egyetem
- Politechnika Warszawska
- Universitatea Tehnica din Cluj-Napoca
- Peter the Great St. Petersburg Polytechnic University
- Kazan National Research Technological University
- Tomsk Polytechnic University
- Inha University
- Seoul National University, College of Engineering
- Pohang University of Science and Technology
- The University of Tokyo, School of Engineering
- Jiangsu University
- Tongji University
- Xihua University
- The Chinese University of Hong Kong
- National Chiao Tung University
- National Taiwan University of Science and Technology
- National Chung Hsing University
- University of New South Wales
- University of Wollongong
Public-public Partnership

- Cooperations as important strategic instrument in the global competition for scarce resources and the best minds
- With universities, research and educational institutions
- Shared teaching
- Cooperative research activities and shared use of expensive research infrastructure

- NAWI Graz
- BioTechMed
- TU Austria
- Science Space Styria
- Elettra Trieste
Cooperations

Public-private Partnership

- With renowned companies
- From endowed professorships to shared research infrastructure

- Magna
- Capsugel Inc.
- Siemens AG
- AVL List GmbH
- Andritz Group
- Werner Hochegger Research Fund