The Technical University of Munich (TUM) ranks among Europe’s most innovative universities – an achievement powered by its distinctive character as “the entrepreneurial university”.

**Science beyond boundaries.** TUM’s broad spectrum of subjects is unmatched across Europe, spanning engineering, the natural and life sciences, medicine, economics and social sciences. The university leverages this enormous potential by intensively and intelligently linking the different disciplines. This inspires modern fields of research extending from bioengineering to machine intelligence.

**Understanding society.** Responsibly shaping technological change means addressing today’s social, political and ethical issues. This is why TUM has established its own social science institutes and networked these with its core disciplines more closely than any other technical university in Europe.

**Opportunities for talent.** TUM offers amazing opportunities at every level of study and research – starting with the first semester right through to professorship. It invests more than other universities in the professional development of individual talent.

**From lab to market.** No other German university produces as many start-up founders as TUM – the result of a support infrastructure unrivalled in Europe. More and more companies are establishing roots on campus. Worldwide, TUM builds long-term research partnerships with the most innovative global players.
Departments and Integrative Research Centers

Departments
- Architecture
- Chemistry
- Civil, Geo and Environmental Engineering
- Electrical and Computer Engineering
- Informatics
- Mathematics
- Mechanical Engineering
- Physics
- Sport and Health Sciences
- TUM School of Education
- TUM School of Governance
- TUM School of Life Sciences Weihenstephan
- TUM School of Management
- TUM School of Medicine

Integrative Research Centers
Scientists from various departments do research and teach in interdisciplinary fields at these centers.
- Munich Center for Technology in Society
- Munich School of BioEngineering
- Munich School of Engineering
- Munich School of Robotics and Machine Intelligence
- TUM Campus Straubing for Biotechnology and Sustainability
- TUM Institute for Advanced Study

Sites

Munich
Historic campus in the heart of the city

Garching
High-tech laboratories on TUM's largest campus

Freising-Weihenstephan
Modern life sciences in a traditional location

Straubing
Biotechnology with renewable resources

Heilbronn
Economics in the „Hidden Champions“ region

Singapore
First campus of a German university abroad

The clock tower, landmark of TUM, in front of Munich’s Church of Our Lady.
Africa
10 partner universities

Asia
61 partner universities

Australia & New Zealand
13 partner universities

North America
23 partner universities

Central and South America
21 partner universities

Europe
32 partner universities and 323 Erasmus partnerships

Europe
32 partner universities

Africa
10 partner universities

Asia
61 partner universities

Australia & New Zealand
13 partner universities

Data as of April 1, 2018
**Studies**

172 Programs
  among these
45 Bachelor
103 Master
42 English-language programs

7 Programs at TUM Asia in Singapore

40,841 Students
  among these
35 % Women
27 % from abroad
  among these
1,407 China
799 Austria
777 India
746 Turkey
632 Italy

9,149 Graduates 2017

67,599 Members of Alumni Network

**Staff**

545 Professors
  among these
18 % Women
17 % from abroad
75 on Tenure Track

25 New appointments 2017
  among these
32 % from institutions abroad

6,459 Research and teaching staff
  (including university hospital)
  among these
35 % Women
21 % from abroad

3,276 Other staff
  (not-including university hospital)
  among these
60 % Women

Data as of Dec. 1, 2017, unless otherwise stated
Research & Technology Transfer

7.013 Publications in scientific journals 2017
(Source: Scopus database)

1.078 Doctorates 2017

26 Participation in DFG Collaborative Research Centers (SFBs)
*among these*
7 SFBs with TUM spokespersons

18 European Research Council Grants 2017

71 Patents first filed in 2017

68 Spin-off companies 2017

Budget

1,407.3 M euros Total budget 2016
(including university hospital)

from

630.8 M euros State of Bavaria
472.8 M euros Revenue
303.8 M euros Raised external funds

303.8 M euros Raised external funds

from

91.0 M euros DFG
57.0 M euros German Federal Government
47.3 M euros Private enterprise
32.5 M euros Other private donors
30.4 M euros EU
24.8 M euros State of Bavaria
12.1 M euros Foundations
8.8 M euros Founders of endowed professorships

Data as of April 1, 2018, unless otherwise stated

Machine for weaving carbon fibers
### Inventions, Discoveries, Successes

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1868</td>
<td>King Ludwig II founds the Polytechnic School Munich as a catalyst for industrialization.</td>
</tr>
<tr>
<td>1879</td>
<td>Carl von Linde is the first professor to found his own company, in order to market his inventions in the field of cooling technology – the birth of both the refrigerator and Linde AG.</td>
</tr>
<tr>
<td>1893</td>
<td>Prototype of Rudolf Diesel’s self-igniting engine. The idea came to Diesel while he was a student at the Technical University.</td>
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<tr>
<td>1928</td>
<td>Hans Fischer reproduces the red blood pigment hemin in a test tube. (Nobel Prize 1930)</td>
</tr>
<tr>
<td>1956</td>
<td>PERM, the fastest computer in the world</td>
</tr>
<tr>
<td>1957</td>
<td>Germany’s first research reactor</td>
</tr>
<tr>
<td>1985</td>
<td>Robert Huber decodes photosynthesis. (Nobel Prize 1988)</td>
</tr>
<tr>
<td>2000</td>
<td>World’s first minimally invasive heart valve operation</td>
</tr>
<tr>
<td>2002</td>
<td>TUM Asia in Singapore, the first campus of a German university abroad</td>
</tr>
<tr>
<td>2006 &amp; 2012</td>
<td>TUM is recognized as a University of Excellence.</td>
</tr>
<tr>
<td>2008</td>
<td>World’s first transplant of two arms</td>
</tr>
<tr>
<td>2014</td>
<td>Mapping of the human proteome</td>
</tr>
<tr>
<td>2016</td>
<td>More than 40,000 students – TUM’s size has doubled within 15 years.</td>
</tr>
<tr>
<td>2008</td>
<td>17 Nobel laureates have conducted research or studied at TUM.</td>
</tr>
</tbody>
</table>
TUM in Rankings

Rank 8  Global University Employability Ranking
       (Times Higher Education)

Rank 4  Europe’s Most Innovative Universities (Reuters)

Rank 64 QS World University Ranking
       best German university
Rank 18 in natural sciences
Rank 24 in engineering sciences

Rank 41 THE World University Ranking (Times Higher Education)

Rank 50 Academic Ranking of World Universities
       (Shanghai Ranking)

Rank 1  German Startup Monitor

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