Shanghai Ranking again taps TUM as Germany's top university

The Technische Universität München has once again been ranked as the best German university in the Academic Ranking of World Universities 2012 (Shanghai Ranking). It came in at 53rd place worldwide and held its position above all other universities in Germany, including the so-called "full universities." TUM was ranked fourth-best among all technical universities in Europe. In rankings by individual subjects, TUM placed 12th worldwide in chemistry and was unchallenged nationally in computer science. In comparisons of broader disciplinary areas, TUM was top nationwide in natural sciences / mathematics, engineering sciences, and life sciences. The ranking by the Shanghai Jiao Tong University evaluates the research achievements of universities.
Faculties

156 programs - 13 faculties - 3 locations

**Munich**
- Architecture
- TUM School of Management
- Civil engineering and surveying
- Electrical engineering and information
- Medicine
- Sport and Health sciences
- TUM School of Education

**Garching**
- Mathematics
- Physics
- Chemistry
- Mechanical engineering
- Computer science

**Freising**
- Center of Life and Food Sciences Weihenstephan (WZW)

**TUM locations**
- Munich
- Garching
- Freising
- Iffeldorf
- Obernach
- Straubing
- Wettzell
- TUM Asia Singapore
- Brussels
- São Paulo
- Beijing
- Mumbai
- TUM Science network
  - Max-Planck-Institutes: Garching Martinsried Munich
  - Helmholtz Zentrum München - Neuherberg
  - iwb Anwenderzentrum Augsburg
  - Fraunhofer-Institutes: Holzkirchen Freising
TUM International

Europe & Russia
56 partner universities
additional 338
ERASMUS – partnerships

USA & Canada
22 partner universities

South America
17 partner universities

Africa
9 partner universities

Australia & New Zealand
8 partner universities

Europe
Danmarks Tekniske Universitet
Kopenhagen - DTU
Technische Universiteit
Eindhoven - TU/e
École polytechnique fédérale
de Lausanne - EPFL

USA
Stanford University
Georgia Institute of Technology

Asien
National University of Singapore - NUS
Nanyang Technological University Singapore - NTU
### Students & Programs

#### Students
- **31,023**
  - men: 21,079
  - women: 9,944

#### International students
- **5,114**
  - 1. China: 804
  - 2. Austria: 428
  - 3. Turkey: 312
  - 4. Italy: 304
  - 5. Spain: 215

#### Programs
- **156**
  - Bachelor: 50
  - Master: 89
  - English-language master programs: 21
  - of GIST – TUM Asia Singapore: 5

#### Freshmen
- 11,882

#### Graduates
- 5,141

Data as of Dec. 1, 2011

### TUM Members

#### Professors
- **475**
  - (including university hospital)
  - Proportion of women: 15%

#### New appointments in 2011
- **41**

#### Other teaching staff
- **5,729**
  - (including university hospital)
  - Proportion of women: 34%

#### Non-teaching staff
- **3,098**
  - (not including university hospital)
  - Proportion of women: 58%
<table>
<thead>
<tr>
<th>Third-party income</th>
<th>258,8 Mio. Euro</th>
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</thead>
<tbody>
<tr>
<td>(2011</td>
<td>including university hospital)</td>
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<tr>
<td>from Deutsche Forschungsgemeinschaft</td>
<td>79,8 Mio. Euro</td>
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<tr>
<td>Collaborative Research</td>
<td>TUM endowed professorships 33</td>
</tr>
<tr>
<td>Center</td>
<td>Habilitations 65</td>
</tr>
<tr>
<td>with spokespersons</td>
<td>TUM patents 319</td>
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<tr>
<td>Doctorates</td>
<td>filed in 2011 46</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Total budget</th>
<th>1,094,6 Mio. Euro</th>
</tr>
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<tbody>
<tr>
<td>(2011</td>
<td>including university hospital)</td>
</tr>
<tr>
<td>State of Bavaria</td>
<td>463,6 Mio. Euro</td>
</tr>
<tr>
<td>Third-party income</td>
<td>258,8 Mio. Euro</td>
</tr>
<tr>
<td>Earnings</td>
<td>355,0 Mio. Euro</td>
</tr>
<tr>
<td>Tuition fees</td>
<td>17,2 Mio. Euro</td>
</tr>
</tbody>
</table>

**Fundraising**

(since 1998)

| Industry                  | 98,3 Mio. Euro |
|----------------------------|               |
| Endowments                 | 45,7 Mio. Euro |
| Private individuals        | 47,2 Mio. Euro |
TUM Nobel Prize Winners

13 Nobel Prize Winners have been generated by TUM, among them:

- **Heinrich Otto Wieland** (1887-1957)
  1927 Nobel Prize in Chemistry

- **Hans Fischer** (1881-1945)
  1930 Nobel Prize in Chemistry

- **Rudolf Mößbauer** (1929-2011)
  1961 Nobel Prize in Physics

- **Ernst Otto Fischer** (1918-2007)
  1973 Nobel Prize in Chemistry

- **Klaus von Klitzing** (* 1943)
  1985 Nobel Prize in Physics

- **Robert Huber** (* 1937)
  1988 Nobel Prize in Chemistry

- **Emil Erlenmeyer** (1825-1909)
  Chemist
  Discoverer of chemical multiple bonding

- **Carl von Linde** (1842-1934)
  Inventor of refrigerating machine
  Founder of Linde AG

- **Oskar von Miller** (1855-1934)
  Hydroelectric- and high voltage-pioneer
  Founder of Deutsches Museum München

- **Rudolf Diesel** (1858-1913)
  Inventor of compression-ignition engine

- **Walther Meißner** (1882-1974)
  Low temperature scientist

- **Claude Dornier** (1884-1969)
  Aircraft engineer

- **Willy Messerschmitt** (1898-1978)
  Aircraft engineer

- **Heinz Maier-Leibnitz** (1911-2000)
  Nuclear physicist
  Initiator of Germany’s first research reactor

- **Arne Skerra** (* 1961)
  Scientist of protein engineering
  Inventor of a new species of receptor proteins

- **Thomas Scheibel** (* 1969)
  Biochemist
  Synthesis of artificial Spiderwebs

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1868  Foundation of Polytechnische Hochschule München
by King Ludwig II
1877  Renamed Technische Hochschule München
1901  Granted right to award doctorates
1930  Integration of Hochschule für Landwirtschaft und Brauerei
1957  Construction of Munich’s research reactor (“atomic egg“)
1967  Foundation of Faculty of Medicine
1970  Renamed Technische Universität München
2000  Foundation of Center of Life and Food Sciences
Weihenstephan (WZW)
Foundation of Central Institute of Medical Engineering
2002  Foundation of Faculty of Sport Sciences
Foundation of TUM Business School
Foundation of German Institute of Science and Technology
(GIST) – TUM Asia Singapore
2003  Foundation of Nutrition and Food Research Center
2004  Opening of Heinz Maier-Leibnitz neutron source
2005  Foundation Institute of Advanced Study (IAS)
2006  TUM achieves German "University of Excellence“ status
2009  Foundation of TUM School of Education
Foundation of TUM Graduate School
2010  Foundation TUM University Foundation
2012  TUM renewed "University of Excellence“ status