The ESA satellite GOCE was successfully launched into orbit around the earth on March 17, 2009. Over two six-month periods, this satellite will measure minute differences in the Earth’s gravity field with unprecedented accuracy. The data will be evaluated by the Chair for Astronomical and Physical Geodesy at TUM.

**TUM. The Entrepreneurial University** – our motto speaks for itself. A pioneering establishment, TUM brings together the widest diversity of talent – fostering and synergizing it to create exciting teams with new perspectives and possibilities. The results are a powerful corporate identity and world-class performance. Value creation through value enhancement.

Our success is built on a number of pillars – deep expertise and specialization, a spirit of collaboration and active team work across fields and faculties, close ties with the professional world and the diversity of our staff and students. You will find our graduates in all four corners of the globe. Since its foundation in 1868, TUM has played a significant role in transforming the German state of Bavaria into a high-tech hub. Meanwhile 13 Nobel price winners have been generated by TUM. We bundle the full spectrum of natural, engineering, educational, medical and life sciences, flanked naturally by business studies. This portfolio of studies is unique in Germany and a rarity in Europe.
Faculties

137 programs – 13 faculties – 3 locations

**Munich**
- Architecture
- Business studies
- Civil engineering and surveying
- Electrical engineering and information technology
- Medicine
- Sport 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
- Wettzell
- Straubing
- Singapore

TUM Science network
- Max Planck Institutes
- Garching
- Martinsried
- Munich
- Helmholtz Zentrum München
- Neuherberg
- iwb Anwenderzentrum Augsburg
- Fraunhofer-Institut Holzkirchen
TUM International

Europe
51 Partner universities

USA / Canada
18 Partner universities

South America
14 Partner universities

Asia
58 Partner universities

Africa
9 Partner universities

Australia / New Zealand
6 Partner universities

Significant Cooperations

Europe
Danmarks Tekniske Universitet Kopenhagen – DTU
Technische Universiteit Eindhoven
Ecole Polytechnique Fédérale de Lausanne – EPFL

USA
Stanford University
Georgia Institute of Technology

Asia
National University of Singapore – NUS
Nanyang Technological University Singapore – NTU
### Students & Programs

<table>
<thead>
<tr>
<th>Category</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students</td>
<td>24,400</td>
</tr>
<tr>
<td>Freshmen</td>
<td>6,600</td>
</tr>
<tr>
<td>Graduates</td>
<td>3,500</td>
</tr>
<tr>
<td>International students</td>
<td>4,300</td>
</tr>
<tr>
<td>1. China</td>
<td>800</td>
</tr>
<tr>
<td>2. Austria</td>
<td>310</td>
</tr>
<tr>
<td>3. Italy</td>
<td>230</td>
</tr>
<tr>
<td>4. Bulgaria</td>
<td>220</td>
</tr>
<tr>
<td>4. Turkey</td>
<td>220</td>
</tr>
<tr>
<td>Programs</td>
<td>150</td>
</tr>
<tr>
<td>Bachelor</td>
<td>59</td>
</tr>
<tr>
<td>Master</td>
<td>66</td>
</tr>
<tr>
<td>English-language master programs</td>
<td>25</td>
</tr>
</tbody>
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### TUM Employees

<table>
<thead>
<tr>
<th>Category</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professors</td>
<td>437</td>
</tr>
<tr>
<td>(including university hospital)</td>
<td></td>
</tr>
<tr>
<td>Proportion of women</td>
<td>13 %</td>
</tr>
<tr>
<td>New appointments in 2009</td>
<td>50</td>
</tr>
<tr>
<td>Other teaching staff</td>
<td>5,178</td>
</tr>
<tr>
<td>(including university hospital)</td>
<td></td>
</tr>
<tr>
<td>Proportion of women</td>
<td>31 %</td>
</tr>
<tr>
<td>Non-teaching staff</td>
<td>2,918</td>
</tr>
<tr>
<td>(not including university hospital)</td>
<td></td>
</tr>
<tr>
<td>Proportion of women</td>
<td>57 %</td>
</tr>
</tbody>
</table>
## Budget

- **Total budget** (2009 | including university hospital): € 947 million
  - **State of Bavaria**: € 398 million
  - **Third-party income**: € 219 million
  - **Earnings**: € 315 million
  - **Tuition fees**: € 15 million

- **Fundraising** (since 1999): € 171 million
  - **Industry**: € 84 million
  - **Endowments**: € 48 million
  - **Private individuals**: € 39 million

### Research & Talent Promotion

| Third-party income (2009 | including university hospital) | € 219 million |
|--------------------------|-----------------|
| From Deutsche Forschungsgemeinschaft | € 76.3 million |

<table>
<thead>
<tr>
<th>Collaborative Research Centers with spokespersons</th>
<th>TUM patents filed in 2009</th>
<th>Funded TUM chairs</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Doctorates**: 788
- **Habilitations**: 60

- **From Deutsche Forschungsgemeinschaft**: € 182
- **Collaborative Research Centers with spokespersons**: 50
- **Doctorates**: 788
- **Habilitations**: 60
- **Funded TUM chairs**: 21
TUM Nobel Prize Winners

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

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

Rudolf Mößbauer (* 1929)
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

TUM Inventors

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

Carl von Linde (1842-1934)
Professor at TU München
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)
German aircraft engineer

Heinz Meier 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

Emil Erlenmeyer
Chemist
Discoverer of chemical multiple bonding

Carl von Linde
Professor at TU München
Inventor of refrigerating machine
Founder of Linde AG

Oskar von Miller
Hydroelectric- and high voltage-pioneer
Founder of Deutsches Museum München

Rudolf Diesel
Inventor of compression-ignition engine

Walther Meißner
Low temperature scientist

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Aircraft engineer

Willy Messerschmitt
German aircraft engineer

Heinz Meier Leibnitz
Nuclear physicist
Initiator of Germany’s first research reactor

Arne Skerra
Scientist of protein engineering
Inventor of a new species of receptor proteins

Thomas Scheibel
Biochemist
Synthesis of artificial spiderwebs
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, Singapore
2003  Foundation of Nutrition and Food Research Center
2004  Opening of Heinz Maier-Leibnitz neutron source
2006  TUM achieves German “University of Excellence” status
2009  Foundation of TUM School of Education
       Foundation of TUM Graduate School