



Technische Universität München

# Facts & Figures 2011





With the MUTE (=E-mobility + TUM), the Technische Universität München presents a prototype of customized and affordable electromobility of the future. Lightweight and exceptionally aerodynamic, this vehicle is distinguished by its high energy efficiency and excellent driving performance.

The **Technische Universität München** (TUM), founded in 1868, is one of the leading universities in Europe. It is distinguished by excellence in research and teaching, interdisciplinary studies, and the fostering of talent. The global trademark TUM symbolizes strong alliances with both corporations and scientific institutions. TUM is listed 47th among universities internationally and first among German universities by the Shanghai Ranking (ARWU 2011).

TUM enrolls 26,000 students in 142 degree programs. This array of disciplines is unique among European universities. The university's main fields of study include engineering, natural sciences, medicine, and life sciences, accompanied by business and economics.

## Faculties

142 programs - 13 faculties - 3 locations

### Munich

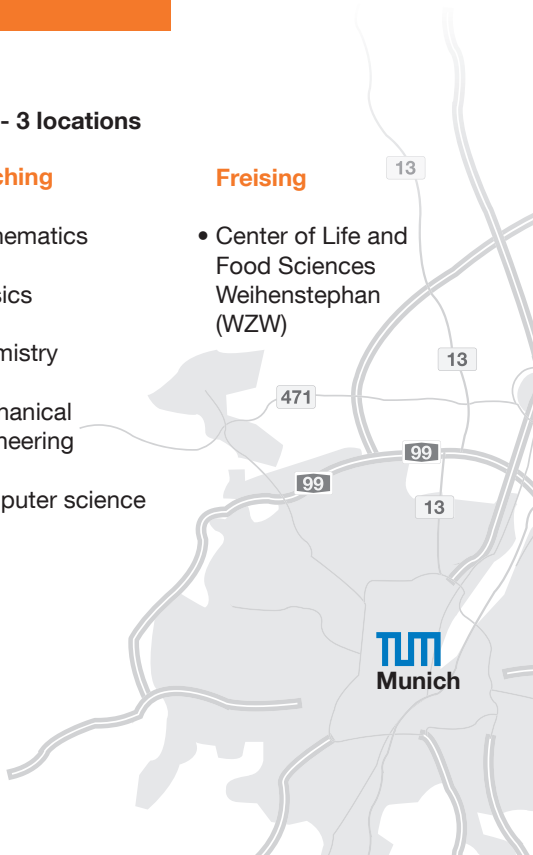
- Architecture
- Business studies
- Civil engineering and surveying
- Electrical engineering and information
- Medicine
- Sport sciences
- TUM School of Education

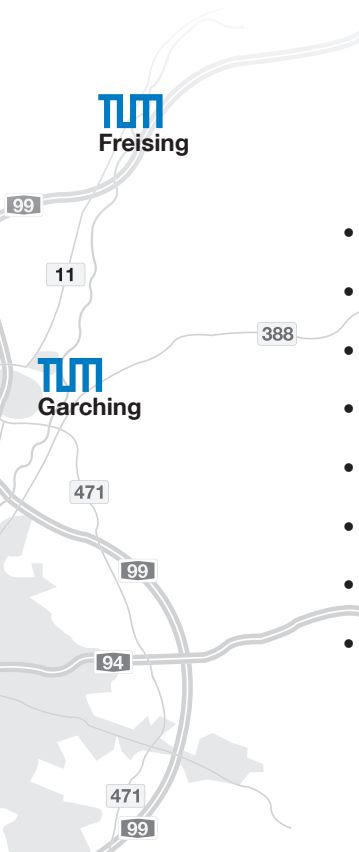
### Garching

- 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
- TUM Asia Singapore

### TUM science network

- Max-Planck-Institutes:  
Garching  
Martinsried  
Munich
- Helmholtz Zentrum  
München - Neuherberg
- iwb Anwenderzentrum  
Augsburg
- Fraunhofer-Institutes:  
Holzkirchen  
Freising

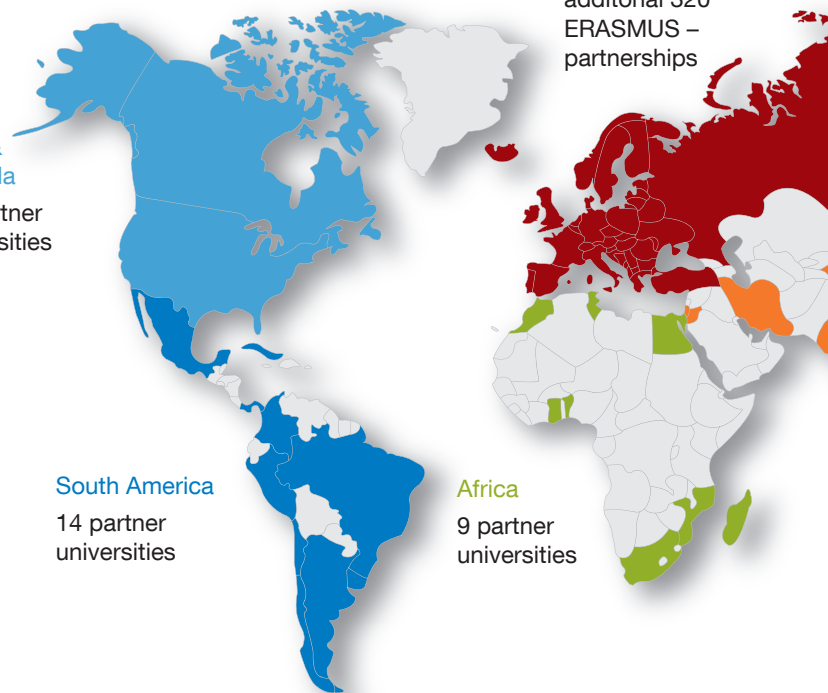
USA &  
Canada  
21 partner  
universities

South America  
14 partner  
universities

Europe & Russia

55 partner universities  
additional 320  
ERASMUS –  
partnerships

Africa  
9 partner  
universities



## Selected Cooperations



### **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

### **Liaison Office**

Peking, China

## Students & Programs

<b>Students</b>	<b>26,302</b>
men	17,579
women	8,723
<b>International students</b>	<b>4,547</b>
1. China	775
2. Austria	362
3. Italy	260
4. Turkey	249
5. Bulgaria	204
<b>Programs</b>	<b>142</b>
Bachelor	52
Master	72
English-language master programs of GIST –	21
TUM Asia Singapore	6
Freshmen	7,777
Graduates	4,199







<b>Professors</b> (including university hospital)	<b>461</b>
Proportion of women	14 %
<b>New appointments in 2010</b>	<b>59</b>
<b>Other teaching staff</b> (including university hospital)	<b>5,564</b>
Proportion of women	33 %
<b>Non-teaching staff</b> (not including university hospital)	<b>3,032</b>
Proportion of women	57 %

## Research & Talent Promotion

### Third-party income

**243,3 Mio. Euro**

(2010 | including university hospital)

from Deutsche Forschungsgemeinschaft

84,5 Mio. Euro

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Collaborative Research Center	23	TUM Stiftungslehrstühle Habitations	27 62
with spokespersons	9	TUM Patents filed in 2010	267 63
Doctorates	763		



**Total budget**

(2010 | including university  
hospital)

**1.052,0 Mio. Euro**

State of Bavaria

452,2 Mio. Euro

Third-party income

243,3 Mio. Euro

Earnings

338,8 Mio. Euro

Tuition fees

17,7 Mio. Euro

**Fundraising**

(since 1998)

**189,4 Mio. Euro**

Industry

96,1 Mio. Euro

Endowments

48,5 Mio. Euro

Private individuals

44,8 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)

Professor at TU München

Inventor of refrigerating machine

**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

## History

- 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

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