

Technische Universität München

Facts & Figures 2012

TECHNISCHE UNIVERSITÄT

A photograph of the entrance to a building at the Technische Universität München. The entrance features a wide set of steps leading up to a doorway framed by several large, textured concrete pillars. Above the entrance, the words 'TECHNISCHE UNIVERSITÄT' are inscribed in large, light-colored letters. Several people are walking up and down the steps. To the left of the entrance, there is a blue rectangular box with the number '21' on it. The overall scene is captured in a blue-tinted, monochromatic style.



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

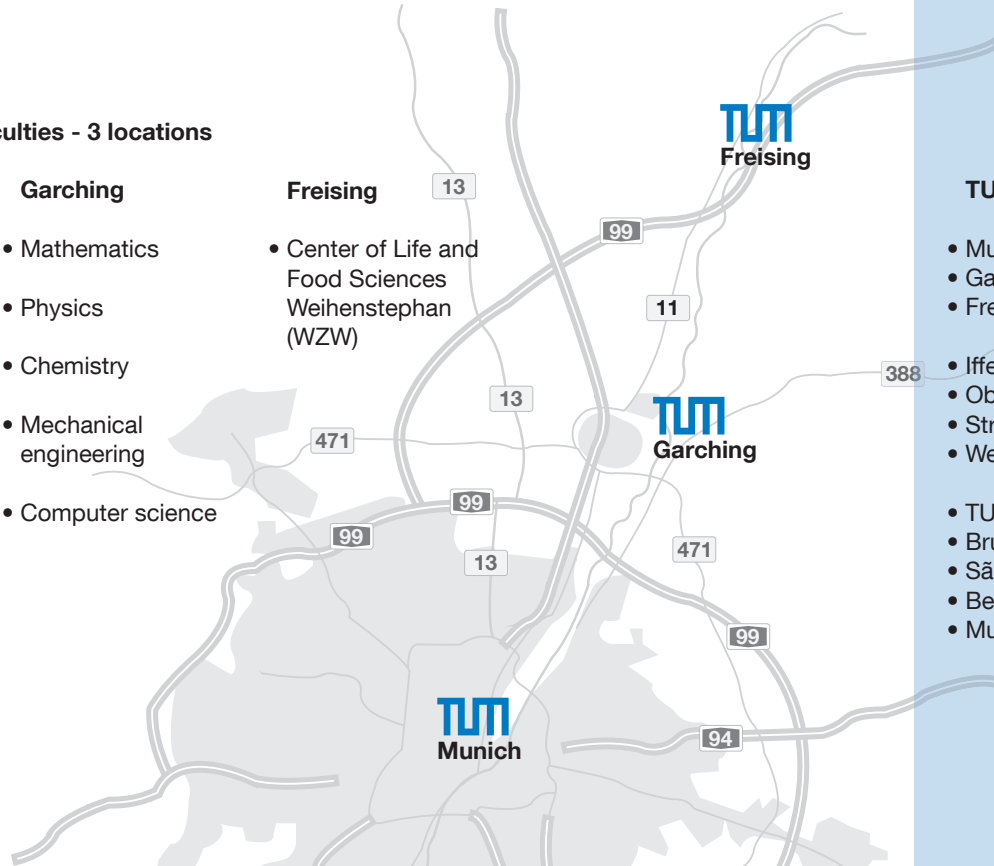
- Architecture
- TUM School of Management
- Civil engineering and surveying
- Electrical engineering and information
- Medicine
- Sport and Health sciences
- TUM School of Education

Garching

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

Freising

- Center of Life and Food Sciences Weihenstephan (WZW)



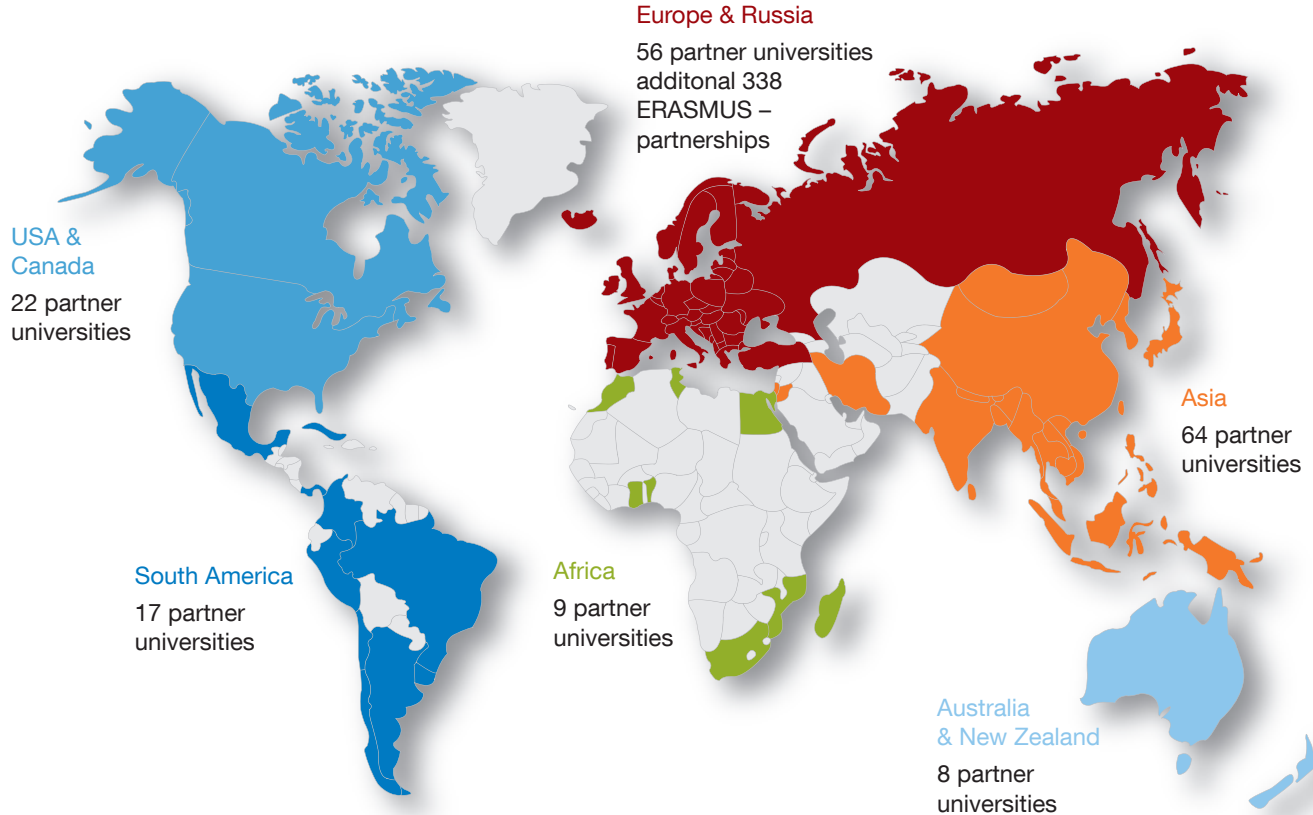
TUM locations

- Munich
- Garching
- Freising
- Iffeldorf
- Obernach
- Straubing
- Wettzell
- TUM Asia Singapore
- Brussels
- São Paulo
- Beijing
- Mumbai

Locations & Networks

TUM science network

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



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 of GIST – TUM Asia Singapore	21 5
Freshmen	11,882
Graduates	5,141

Data as of Dec. 1, 2011



TUM Members

Professors (including university hospital)	475
Proportion of women	15 %
New appointments in 2011	41
Other teaching staff (including university hospital)	5,729
Proportion of women	34 %
Non-teaching staff (not including university hospital)	3,098
Proportion of women	58 %

Third-party income **258,8 Mio. Euro**
 (2011 | including university hospital)
 from Deutsche Forschungsgemeinschaft 79,8 Mio. Euro

Collaborative Research Center with spokespersons	23	TUM endowed professorships	33
Doctorates	911	Habilitations	65
		TUM patents filed in 2011	319
			46



Total budget
 (2011 | including university hospital)

1.094,6 Mio. Euro

State of Bavaria	463,6 Mio. Euro
Third-party income	258,8 Mio. Euro
Earnings	355,0 Mio. Euro
Tuition fees	17,2 Mio. Euro

Fundraising
 (since 1998)

191,2 Mio. Euro

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

TUM inventors

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

- 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

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