

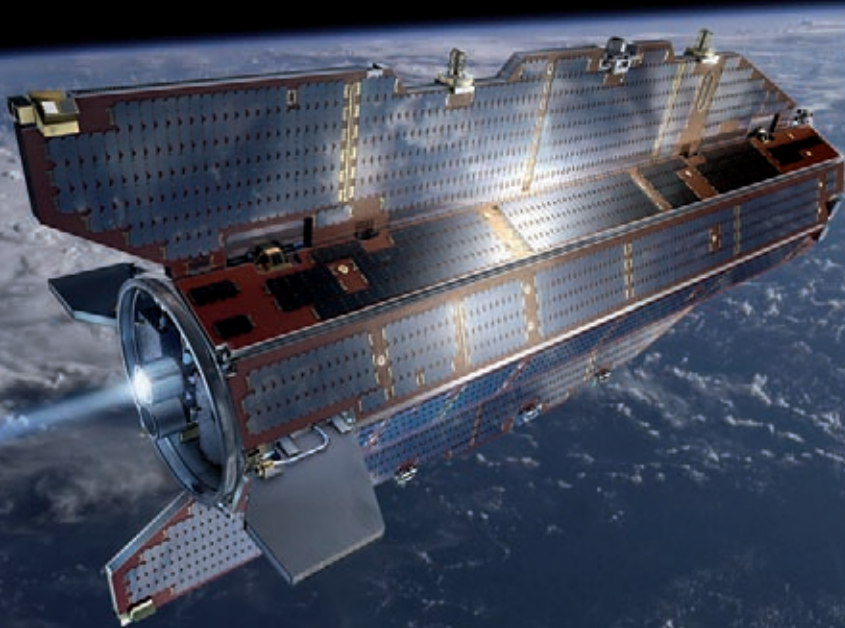


Technische Universität München

Facts & Figures 2010



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.



Profile

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

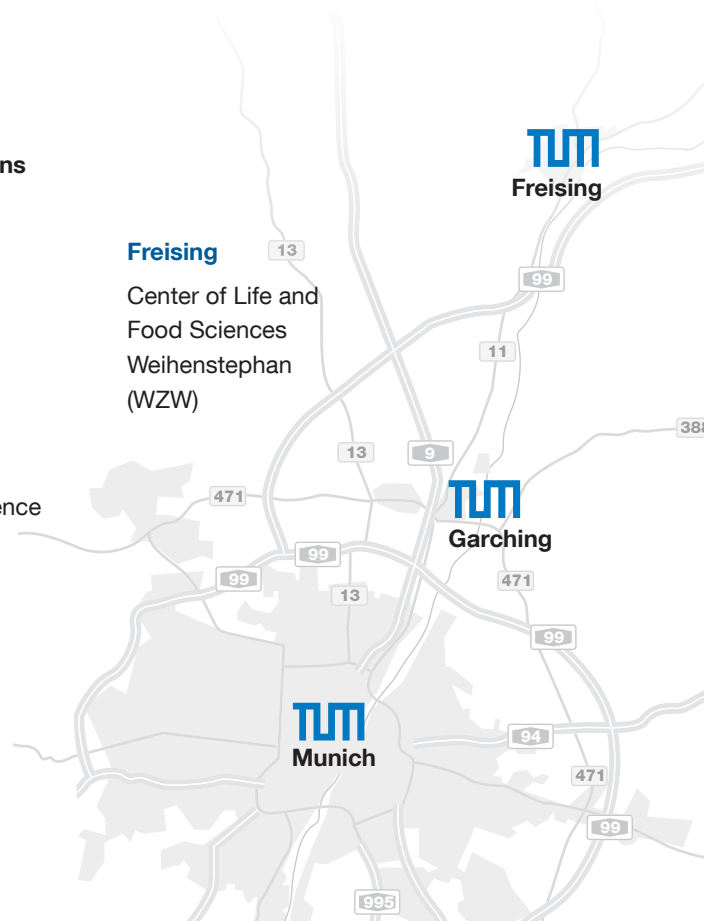
Architecture
Business studies
Civil engineering and surveying
Electrical engineering and information technology
Medicine
Sport sciences
TUM School of Education

Garching

Mathematics
Physics
Chemistry
Mechanical engineering
Computer science

Freising

Center of Life and Food Sciences
Weihenstephan (WZW)



Locations & Networks

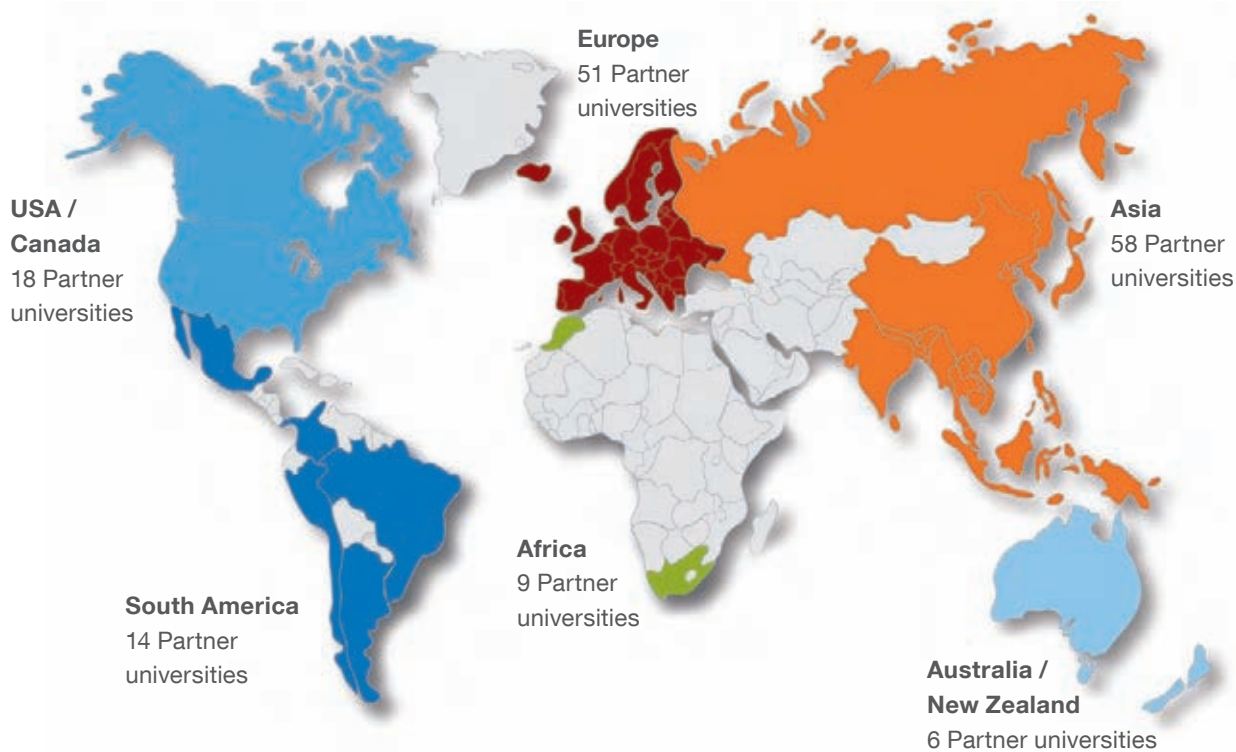
TUM locations

Munich
Garching
Freising
Iffeldorf
Obernach
Wetzell
Straubing
Singapore

TUM Science network

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

TUM International



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

Students	24,400
women	8,000
Freshmen	6,600
Graduates	3,500
International students	4,300
1. China	800
2. Austria	310
3. Italy	230
4. Bulgaria	220
4. Turkey	220
Programs	150
Bachelor	59
Master	66
English-language master programs at German Institute of Science and Technology (GIST), Singapore	25 5



TUM Employees

Professors (including university hospital)	437
Proportion of women	13 %
New appointments in 2009	50
Other teaching staff (including university hospital)	5,178
Proportion of women	31 %
Non-teaching staff (not including university hospital)	2,918
Proportion of women	57 %

Research & Talent Promotion

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

Collaborative Research Centers with spokespersons	24	TUM patents filed in 2009	182
Doctorates	788	Funded TUM chairs	21
Habilitations	60		



Budget

Total budget **€ 947 million**
(2009 | including university hospital)

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

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

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, 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

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Publishing Details

Publisher: TUM, Corporate Communications Center,
Text and concept: Martin Zscheke, Photos: TUM
Design and Layout: Britta Eriskat, München
Printed by: Dimetria gGmbH, Straubing, Updated: 07/2010

