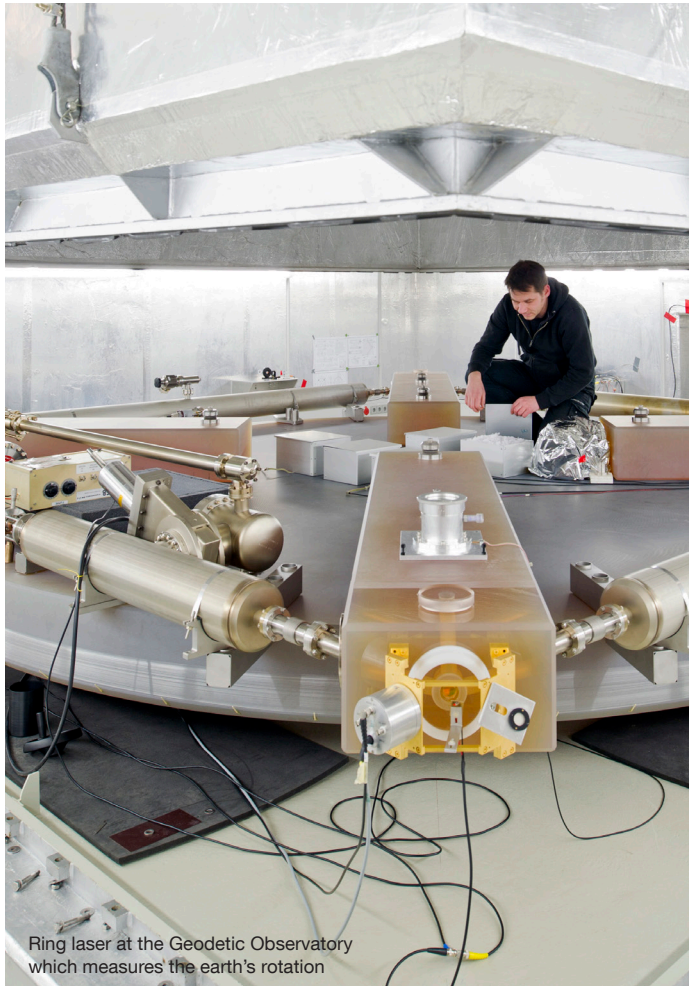


Facts & Figures 2016/17





Ring laser at the Geodetic Observatory
which measures the earth's rotation

Portrait

The Technical University of Munich (TUM) is one of Europe's leading universities for research with a range of disciplines, unparalleled in Germany, including engineering and natural sciences, life sciences and medicine, management and social sciences. TUM takes advantage of this breadth to create interdisciplinary structures in both research and teaching. After all, it is only through collaboration between disciplines that the great challenges of the 21st century can be overcome. TUM focuses on the following future-oriented fields:

- Energy & Natural Resources
- Environment & Climate
- Health & Nutrition
- Mobility & Infrastructure
- Information & Communications

At the same time, TUM addresses the decisive issues surrounding the social aspects of new technologies.

TUM is an entrepreneurial university that fosters individuals' gifts and cultivates the diversity of talents – at all levels, from first-year students to leading scientists. TUM is international, both on its campuses in Bavaria and at its locations around the world.

Ever since pioneering engineers like Carl von Linde and Rudolf Diesel paved the way for ground-breaking innovations at TUM in the 19th century, technology transfer has been one of the university's central goals – for the lasting benefit of mankind.

Departments & Integrative Research Centers

Munich

- Architecture
- Civil, Geo and Environmental Engineering
- Electrical and Computer Engineering
- Sport and Health Sciences
- TUM School of Education
- TUM School of Governance
- TUM School of Management
- TUM School of Medicine
- [Munich Center for Technology in Society](#)

Garching

- Chemistry
- Informatics
- Mathematics
- Mechanical Engineering
- Physics
- [Munich School of BioEngineering](#)
- [Munich School of Engineering](#)
- [TUM Institute for Advanced Study](#)

Freising

- TUM School of Life Sciences
Weihenstephan

iwb
Anwenderzentrum
Augsburg

Straubing Center
of Science

TUM Science & Study
Center Raitenhaslach

Geodetic
Observatory
Wetzell

Further
Locations
in Bavaria

○ Freising

○ Garching

○ Munich

Ludwig Bolkow
Campus, Taufkirchen

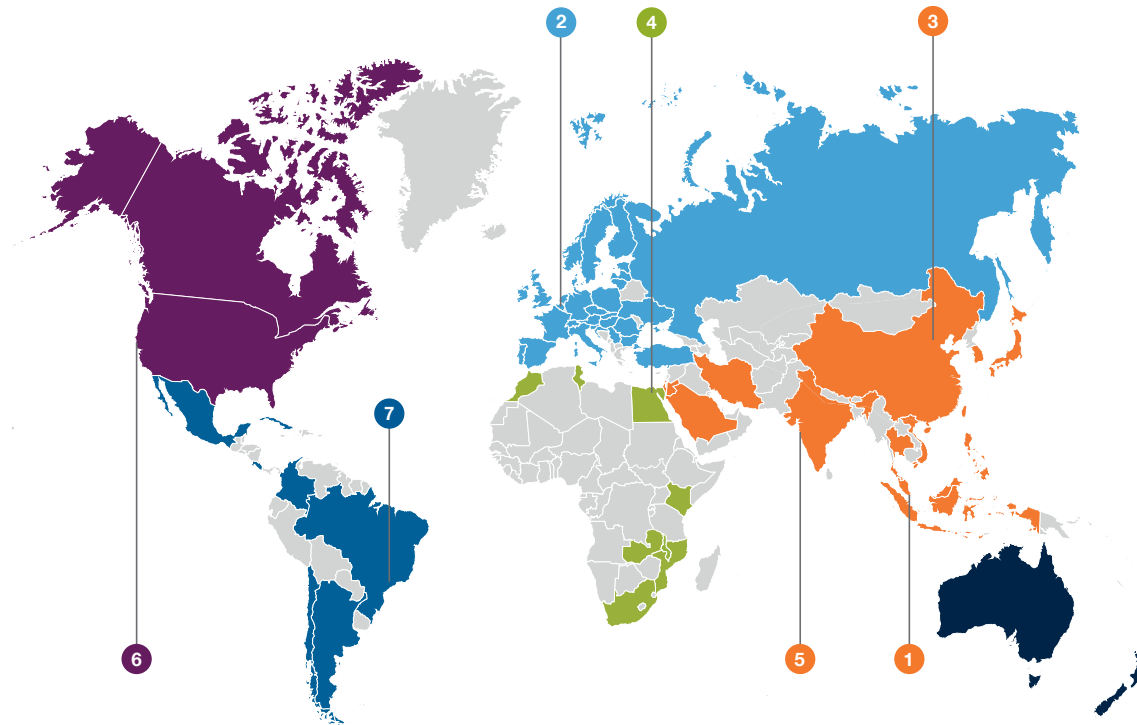
Environmental
Research Station
Schneeferner-
haus, Zugspitze

Hydraulic Engineering
Laboratory,
Oberrach

Limnological Research
Station, Iffeldorf

Schülerforschungs-
zentrum Berchtes-
gadener Land

TUM International



North America

22 partner universities

Central and South America

22 partner universities

Europe

36 partner universities
and 320 Erasmus
partnerships

Africa

10 partner universities

Asia

61 partner universities

Australia & New Zealand

11 partner universities

TUM Branches

1 TUM Asia, Singapore

First campus of a German university abroad

2 EuroTech Universities Alliance (Brussels)

- Technical University of Denmark – DTU
- École polytechnique fédérale de Lausanne – EPFL
- Eindhoven University of Technology – TU/e
- Technical University of Munich – TUM

3 TUM Office Beijing

4 TUM Office Cairo

5 TUM Office Mumbai

6 TUM Office San Francisco

7 TUM Office São Paulo



Students develop a purifier with moss

Students & Programs

40,124 **Students**
among these
34 % Women

9,661 **International Students**
among these

1,221 China
789 Austria
625 Italy
624 Turkey
617 India

167 **Programs**
among these
44 Bachelor
105 Master
35 English-language
programs

7 **Programs at TUM Asia**
in Singapore

8,692 **Graduates 2016**

62,941 **Members of**
Alumni Network

TUM Members

545 **Professors**
(including university
hospital)
among these

17 % from abroad
18 % Women
72 on Tenure Track

35 **New appointments 2016**
among these
43 % from institutions abroad

6,346 **Research and**
teaching staff
(including university
hospital)
among these
20 % from abroad
35 % Women

3,249 **Other staff**
(not-including
university hospital)
among these
59 % Women

Research & Technology Transfer

6,985 Publications in
scientific journals 2016
(Source: Scopus database)

1,032 Doctorates 2016

25 Participation in DFG Collaborative
Research Centers (SFBs)
among these
7 SFBs with TUM spokespersons

10 European Research Council
Grants 2016

59 Patents first filed in 2016

64 Spin-off companies 2016

Data as of March 31, 2017, unless otherwise stated

Budget

1,329.0 M euros Total budget 2015
(including university hospital)
thereof

606.2 M euros State of Bavaria

437.8 M euros Revenue

285.0 M euros Raised external funds

285.0 M euros Raised external funds
thereof

90.1 M euros DFG

53.2 M euros German Federal Government

46.4 M euros Private enterprise

31.3 M euros Other private donors

25.1 M euros State of Bavaria

20.0 M euros EU

11.8 M euros Foundations

7.1 M euros Founders of endowed
professorships



Nobel Prize Winners

13 TUM professors and alumni have been honored with a Nobel Prize, 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

Famous Scientists & Inventors

Emil Erlenmeyer

(1825–1909)

Chemist

Discoverer of chemical
multiple bonding

Carl von Linde

(1842–1934)

Inventor of refrigeration
technology

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
compressionignition
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
spider silk

History

- 1868** Bavaria's King Ludwig II founds the Polytechnische Schule München as a catalyst to industrialization
- 1877** Renamed Technische Hochschule München (THM)
- 1900** The THM is already international: more than 20 percent of its students come from abroad.
- 1930** Integration of the Hochschule für Landwirtschaft und Brauerei (College of Agriculture and Brewing), Weihenstephan
- 1957** Construction of the Munich research reactor, the beginnings of the present-day Garching research campus
- 1970** Renamed Technische Universität München (TUM)
- 2000** New campus for Life Sciences in Weihenstephan
- 2002** TUM Asia in Singapore: first campus of a German university abroad
- 2005** TUM Institute for Advanced Study (IAS): freedom for particularly innovative and high-risk research
- 2006** TUM designated a University of Excellence (renewed 2012)
- 2009** Launch of the Integrative Research Centers: interdisciplinary organization of research on future-oriented fields
- 2012** Munich Center for Technology in Society: new focus on "Technology and Society". In 2014 TUM becomes the host university of the Bavarian School of Public Policy
- 2016** For the first time enrollment at TUM exceeds 40,000, a 100 percent increase within 15 years
Ranked 8th worldwide in the Global Employability University Ranking
Best German university in the Shanghai Ranking and the QS World University Ranking

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