Exploring the World with TUM

www.international.tum.de

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Technical University of Munich
TUM School of Engineering and Design – Civil and Environmental Engineering / Geo Engineering (TUM ED – CEE / GE)

Andreas Mayer
TUM Global & Alumni Office

Munich, 18 July 2024
Going Abroad with TUM

- **Double Degree Programs**
  - One study program, two degrees
  - DD Programs ARG
  - DD Programs with Argentina
  - Experience report
  - DD Program at Universidad Nacional de Cuyo, ARG

- **TUMexchange**
  - Study stays worldwide
  - Experience report
  - DD Program at Tsinghua SIGS, China

- **Erasmus+ /SEMP**
  - Study stays and Internships in Erasmus+ program countries

- **School Partnerships**
  - Additional exchange opportunities at TUM ED-CEE/GE

- **ATHENS/ EuroTeQ**
  - Study one week in Europe / Virtual Learning Opportunities

- **Scholarships / TUMi**
  - Grants for stay abroad / Get involved!

- **Time for your questions**
Good Reasons to Go Abroad

- Increase your career opportunities
- Improve your language skills
- Gain more awareness for global challenges
- Intercultural competences
- Become a global citizen
Double Degree – One study, Two Degrees
Double Degree – One study, Two Degrees

Advantages
• Acquisition of a second degree in addition to your TUM degree
• Mutual recognition of credits between both universities

Requirements
• Being enrolled at a TUM school offering a suitable Double Degree program
• Above-average bachelor's degree
• Excellent level of the language of instruction at the partner university

Application
• Application during Erasmus+ application round
• Application period starting in December for exchange period in the following winter term
• Selection & nomination by TUM ED – CEE / GE

https://wiki.tum.de/x/vYHnN
Double Degree Programs – TUM ED (CEE/GE)

**Argentina:**  
National University of Tucuman (UNT)  
National University of Cuyo (UNCuyo)

**France:**  
(École Polytechnique)  
École Nationale des Ponts et Chaussées

**Sweden:**  
Royal Institute of Technology (KTH)

**Spain:**  
Polytechnische Universität Madrid

**Czech Republic:**  
Technische Universität Prag

**1:1 Program:**  
1:1 Programm DTU-TUM (for students of M. Sc. Environmental Engineering),  
Danmarks Tekniske Universitet (DTU), Danmark
Double Degree Master Bauingenieurwesen für Geotechnik-Vertiefer

Lukas Henzinger
Technische Universität München
School of Engineering and Design
Lehrstuhl und Prüfamt für Grundbau, Bodenmechanik, Felsmechanik und Tunnelbau
München, 18.07.2024
Bi-nationales Masterprogramm Geotechnik mit Double Degree

Prof. Roberto Cudmani

student exchanges
teaching exchanges
collaborative research

Prof. Arnaldo Barchiesi

Universidad Nacional de Tucumán
Prof. Abel Jacinto
Spezialisierungen der Universitäten und Kernkompetenzen im DD
Studienplan

TUM-Studierende

- 1./2. Semester an der TUM
- 3. Semester an der UNT oder an der UNCuyo (20 – 30 ECTS)
- 4. Semester Masterarbeit an einer der Universitäten

<table>
<thead>
<tr>
<th>Kohorte</th>
<th>2022-2023</th>
<th>2023-2024</th>
<th>2024-2025</th>
<th>2025-2026</th>
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<tbody>
<tr>
<td>1. Kohorte</td>
<td>TUM / UNCuyo</td>
<td>TUM / UNCuyo</td>
<td>TUM / UNCuyo</td>
<td>TUM / UNCT</td>
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<td>2. Kohorte</td>
<td>TUM / UNT</td>
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<td>3. Kohorte</td>
<td>TUM / UNCuyo</td>
<td>TUM / UNCuyo</td>
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<tr>
<td>4. Kohorte</td>
<td>TUM / UNT</td>
<td>TUM / UNT</td>
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UNCTuyo-Studierende an der TUM
TUM-Studierende an der UNCTuyo
UNT-Studierende an der TUM
TUM-Studierende an der UNT
### Beispielhafter Curriculum

<table>
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</thead>
<tbody>
<tr>
<td>Fortgeschrittene Boden- und Felsmechanik</td>
<td>Geotechnik 6 ECTS</td>
<td>Spezialtiefbau und Felsbau</td>
<td>Geotechnik 6 ECTS</td>
<td>見積</td>
</tr>
<tr>
<td>Kontinuumsmechanik</td>
<td>Bau mechanik 6 ECTS</td>
<td>Baudynamik</td>
<td>Bau mechanik 6 ECTS</td>
<td>Mastarbeit</td>
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<tr>
<td>Fluidmechanik und Grundwasserhydraulik</td>
<td>Querschnittsvertiefung 6 ECTS</td>
<td>Tunnelbau Wahlmodul 1 3 ECTS</td>
<td>Tunnelbau Wahlmodul 2 6 ECTS</td>
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<tr>
<td>Tunnelbau Wahlmodul 3 ECTS</td>
<td>Geotechnik 6 ECTS</td>
<td>Betonkonstruktionen und Ingenieurgeodäsie im Tunnelbau Tunnelbau 6 ECTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ingenieurgeologische und geotechnische Aspekte des Tunnelbaus Tunnelbau 6 ECTS</td>
<td>Integral Transform Methods Bau mechanik 3 ECTS</td>
<td>30 ECTS</td>
<td>30 ECTS</td>
<td>30 ECTS</td>
</tr>
<tr>
<td>Bodendynamik Bau mechanik 3 ECTS</td>
<td>30 ECTS</td>
<td>6 Prüfungen</td>
<td>6 Prüfungen</td>
<td>1 Prüfung</td>
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</table>
### Kurse der UNT und der UNCuyo im DD-Programm*

<table>
<thead>
<tr>
<th>Pflichtfächer</th>
<th>Hours</th>
<th>Equivalent ECTS</th>
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<tbody>
<tr>
<td>Slopes and Dams Engineering (Ingeniería de Taludes y Presas)</td>
<td>50</td>
<td>6</td>
</tr>
<tr>
<td>Applied Earthquake Geology (Geología de Terremotos Aplicada)</td>
<td>50</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wahlfächer</th>
<th>Hours</th>
<th>Equivalent ECTS</th>
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<tr>
<td>Tailings dams (Presas de Relaves Mineros)</td>
<td>40</td>
<td>5</td>
</tr>
<tr>
<td>Hydrogeology (Hidrogeología)</td>
<td>40</td>
<td>5</td>
</tr>
<tr>
<td>Material Point Method (Método del Punto Material)</td>
<td>40</td>
<td>5</td>
</tr>
<tr>
<td>Practice in Geotechnical Engineering (Práctica de Geotecnia)</td>
<td>20</td>
<td>3</td>
</tr>
</tbody>
</table>

Im Zuge des DD-Programms sind 20-30 ECTS erfolgreich an der Gastuniversität zu belegen. Die Anerkennung der Studienleistungen erfolgt über die Querschnittsvertiefung.

*das Kursprogramm wird jährlich aktualisiert und veröffentlicht*
Zulassungsvoraussetzungen und Auswahlverfahren

- Akademische Leistungen, insbesondere in den Bereichen Geotechnik und Tunnelbau
- Sprachkenntnisse in Spanisch (>B2*)
- Wahl folgender Vertiefungsrichtungen
  - Geotechnik
  - Querschnittsvertiefung
  - Ggf. Tunnelbau
- Ggf. absolvierte Praktika und Tätigkeiten als Werkstudent
- Motivationsschreiben
- Empfehlungsschreiben
Bewerbungsverfahren

- Bewerbungsphase analog zu Erasmus-Programmen (i. d. R. Fristende Mitte Januar für ein Austauschsemester im darauffolgenden Wintersemester)
- Bewerbung über die Moveon-Plattform
- siehe auch TUM-Wiki
Förderung durch das CUAA-DAHZ

Finanzierung für jährlich bis zu 6 Studierende durch das Deutsch-Argentinische Hochschulzentrum (CUAA-DAHZ)

- monatliches Stipendium (1075 €/Monat)
- Reisekostenpauschale (1500 €)

Weiterführende Informationen zum DAHZ:
Homepage des CUAA-DAHZ
Video zum 10 jährigen Bestehen des CUAA-DAHZ
Wieso sollte man in Argentinien studieren?
Laufender Austausch
Kontakt bei Rückfragen

Ansprechpartner:

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TUMexchange – Study Stays Worldwide
TUMexchange – Study Stays Worldwide

30 Countries
150+ Partner Universities
TUMexchange benefits

- **Exemption from tuition fees** at the partner universities

- **Recognition** of study achievements abroad

- **Erasmus+ scholarships**

- Training courses on **intercultural communication** at TUM Language Center
Application requirements

- **Matriculation at TUM** at the moment of application as well as during your whole stay abroad

- **Successful completion of at least four semesters** of your Bachelor studies when starting your exchange semester

- **Sound knowledge of the language** of instruction at the partner university

- **Good or very good course achievements.** The required average grade (= Notendurchschnitt) can vary depending on the university’s popularity and cannot be determined explicitly
Application procedure

Phase 1: Internal application at TUM Global and Alumni Office (Online)

- Application for a maximum of **two universities**
- Timely submission of **online application**
- **Selection Criteria:**
  - Current average grade of bachelor studies
  - Language proficiency in the teaching language
  - Letter of motivation (academic plan)
- Acceptance/Rejection by TUM G&A **by the end of December 2024**

**Please note:** Acceptance mail by TUM G&A ≠ Nomination!

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Application period for a stay in winter term 2025/26 or summer term 2026:

Tuesday, October 22nd 2024 from 10:00 a.m. to Tuesday, November 5th 2024 10:00 a.m.
Application procedure

Phase 2: External application at the partner university

- After the official nomination by TUM G&A Office: Direct application at the partner university
- Acceptance by partner university

Phase 3: Preparation for the stay abroad

- It is your own responsibility to take care of visa application, up-to-date passport, insurances, flights, accommodation, scholarships etc.
Information on our Website

- **Specific information** about your preferred partner university
- **Travel reports** from former exchange students
- **Chances** – Rates of selected students from the last years
- Information about **scholarship options**
- **Download Section** for templates
Erasmus+ scholarships

- Students selected for certain eligible partner universities automatically receive the scholarship
- Information about necessary documents for the scholarship sent via email from G&A
- Individual support: 700€/month
- Funded stay duration between 2 months and 12 months
Scholarships for TUMexchange participants

TUMexchange partner universities eligible for Erasmus+

- Argentina: Universidad Nacional del Sur
- Brazil: Universidade Estadual de Campinas
- Brazil: Universidade Estadual Paulista 'Júlio de Mesquita Filho' (UNESP)
- Chile: Universidad de Concepción
- India: Indian Institute of Technology Madras
- India: Indian Institute of Technology Kharagpur
- Colombia: Universidad de los Andes
- Mexico: Universidad Autónoma del Estado de México
- Morocco: Al Akhawayn University
- South Korea: Pohang University of Science and Technology
- South Korea: Pusan National University
Your TUMexchange Team

Larissa Danschina
Australien, Indien, Kanada, Neuseeland, Russland, Singapur, USA, Vietnam

Sabine Pascale
Argentinien, Ägypten, Brasilien, Chile, Costa Rica, Ghana, Kenia, Kolumbien, Israel, Marokko, Mexiko, Peru, Südafrika

Andreas Mayer
China, Indonesien, Japan, Malaysia, Philippinen, Südkorea, Taiwan (China), Thailand, Vereinigtes Königreich

www.international.tum.de/tumexchange/
Erasmus+ Study Stays and Internships
Erasmus+ Study Stays – TUM ED (CEE/GE)

50 Partneruniversitäten
23 Länder
130 Plätze

Austauschmöglichkeiten:
https://wiki.tum.de/pages/viewpage.action?pageId=887587257#Erasmus+/SEMPCEE/GE-Austauschm%C3%B6glichkeiten
Erasmus+ Study Stays - Benefits

- **Financial support** for your stay abroad
- **Social top up** for students with fewer opportunities
- There are **no tuition fees** at the partner university
- Students can be funded in **each study cycle** (Bachelor, Master, Doctorate) for min. 2 to max. 8 months
- **Recognition** of academic achievements completed abroad
- Application possible from the **1st year of study**
- The semester abroad will be automatically recorded in your **Diploma Supplement**
Erasmus+ Study stays – Application and requirements

• Required level of the **language** of instruction **B1/B2**
• Good academic performance
• Enrollment at TUM during application and entire exchange
• 10 ECTS at the host university
• You can apply for up to 4 universities
• Application period starting in December for the following winter and summer term
• Selection & nomination by TUM ED – CEE / GE

[https://wiki.tum.de/x/uYHnN](https://wiki.tum.de/x/uYHnN)

**Application period AY 2025/26: 01.12.2024 – 15.01.2025**
Erasmus+ Internships

- **Self-organized** internship (also practice-related theses can be funded)
- **Host institutions:** companies, universities, organizations, individual entrepreneurs, NGOs, associations, etc.
- **Duration:** from a min. two months to a max. 12 months
- **Max earned salary:** 1000 € gross per month
- Also possible in the first year of study
- Enrollment at TUM (exception: graduate internship must be done up to one year after graduation)
- Application deadline for an internship **within EU**: 4 weeks before start of internship
- Application deadline for an internship **outside EU**: 8 weeks before start of internship

https://www.international.tum.de/global/erasmuspraktika/
SEMP – Study Stays in Switzerland
SEMP – Study Stays in Switzerland

- **Exemption of tuition fees** at the partner university
- **Financial Support** for your stay abroad by the Swiss partner university
- **Recognition** of academic achievements completed abroad
- Application possible after two completed study semesters (Bachelor)

- Application during Erasmus+ application round
- Application period starting in December for the following winter and summer terms
- Selection & nomination by TUM ED – CEE / GE

[https://wiki.tum.de/x/uYHnN](https://wiki.tum.de/x/uYHnN)
School Partnerships – TUM ED (CEE / GE)
School Partnerships – TUM ED (CEE / GE)

- Additional exchange opportunities for enrolled students of TUM ED (CEE/GE)
- Partnerships at non-European institutions:
  - German Jordanian University, Jordan
  - Osaka Institute of Technology, Japan
- Application during Erasmus+ application round
- Application period starting in December for the following winter and summer terms
- Selection & nomination by TUM ED – CEE / GE

https://wiki.tum.de/x/wlHnN
ATHENS – Study One Week in Europe

24 Partner Universities
14 Countries
ATHENS – Study One Week in Europe

- **One-week intensive course** on a wide range of topics, from engineering to social sciences
- Participation from the **3rd year of study** (=Bachelor) recommended
- **Two sessions** per year: mid March and mid November
- Complementary **European Dimension Activity** (cultural programme)
- **Recognition** of academic achievements of **2 ECTS** possible
- **ATHENS BIPs** - Blended Intensive Programmes – with the possibility to have recognised **3 ECTS**
- „First come, first serve“

**Application periods:**

- September (November session) and January (March session)
Virtual Learning Opportunities with EuroTeQ
EuroTeQ – eight excellent technical universities
Virtual Learning Opportunities with EuroTeQ

- **Over 130 virtual and hybrid courses** at **eight** EuroTeQ partner universities (WS 2023/24)
- Completely taught in English (except for the foreign language course offers)
- Participation **free of charge**
- Certificate or transcript of records upon completion
- Possible recognition of achievements
- Take **additional courses** that are not offered at your home university
- **International learning experience from the comfort of you own home!**

**Application period winter term 2024/25: 14 May - 29 July 2024**
Scholarships for Your Stay Abroad
Scholarships for Your Stay Abroad

PROMOS scholarship (DAAD)
- Final thesis outside of Erasmus+ zone
- Two application deadlines per year (31.05. und 30.11.)
- Financial support of around 400€ for up to 6 months

PROMOS study related group travel
- Study-related green travel inside the Erasmus+ zone
- Has to be accompanied by a university representative (lecturer, research assistant) of TUM
- Financial support of 45€ for up to 12 days
Thinking Green – Climate Friendly Stay Abroad
Thinking Green – Climate Friendly Stay Abroad

Erasmus+ Green Travel

- Organize your trip environmentally friendly by train, bus or bicycle
- Up to 6 additional days can be added to the Erasmus+ grant for green travel

Erasmus+ Award Green Travel from TUM Global & Alumni Office

- Additionally reward of environmentally friendly travel to your Erasmus+ destination
- Send photos, report or link to your blog about your green journey by train, bus, or bike
- Most beautiful examples are awarded between 300 and 500 Euros – depending on the distance
Thinking Green – Climate Friendly Stay Abroad
Get Involved with ESN TUMi Munich
Get Involved with ESN TUMi Munich

Open for international and local students

Advantages for TUMi tutors

• Experience an international atmosphere in Munich
• Develop language and intercultural skills
• Volunteer
• Continue to live in an international community
• Apply before the start of each semester: https://tumi.esn.world/

All offers of TUMi are open to all students of TUM (not just international students, but also: YOU!)

• Language café, country evenings, game nights
• Excursions, trips, company visits, theater performances, sports activities & much more…
• Event dates published in the TUMi app: https://tumi.esn.world/
Als Grundlage dient der Corporate Design Style Guide der TUM.

Die Präsentationsvorlage ist auf gute Lesbarkeit und klare Darstellung von Informationen optimiert.

Housing Forum at TUM Global & Alumni Office
Housing Forum at TUM Global & Alumni Office

Rent your room/apartment to an international exchange student while you are away.

Your advantages at a glance

• Large selection of possible tenants
• Help for new exchange students
• No organizational effort

How it works

• Fill in the form for housing offers and send it to our incoming team
• All housing offers are published on the incoming website
• Interested exchange students receive your contact details via e-mail
• You decide who gets the accommodation

https://www.international.tum.de/en/global-going-abroad
TUM Language Center

- Courses in **18 languages**
  - Free of charge for TUM students and staff
  - Courses during the semester and block courses during the semester breaks
  - Courses at all major TUM campuses

- Language Certificates (Level A1-C1)
- Intercultural Communication Trainings
- TUMtandem
- English Writing Center
Contact

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Technische Universität München
TUM School of Engineering and Design
https://wiki.tum.de/x/bYHQN

Technical University of Munich
TUM Global & Alumni Office
www.international.tum.de/auslandsaufenthalte