TUM PREP – Partner Information Event

Sandra Lessing
TUM PREP Program Manager

Munich, September 13, 2023
OVERVIEW

- TUM PREP Program Overview
- Testimonials TUM PREP 2023 students
- Introduction of TUM and TUM campuses
- Application & Matching Process
- Impressions of TUM PREP 2023 and previous years
- Orientation Days & Framework Program
- Enrollment Process, Accommodation & Estimated Expenses
- Certificates & ECTS
- Q&As
Practical Research Experience Program (TUM PREP)

Research Project Participation

- Structured research internship program with over 65 research projects from various TUM Schools / departments to choose from
- For selected North American partners & the Imperial College London (ICL)
- Approx. 9 weeks of research in summer (July 1 - August 29, 2024)
- Highly competitive admission process with only 40 accepted students per summer

Framework Program

- Orientation Days
- Kick-Off Reception and Closing Event
- Excursions / Day trips
- Local Activities / Beergarden evenings
- TUM Buddies

Central Services

- DAAD Scholarship of € 1,000
- Accommodation Offer by Student Union
- 10 ECTS Credits
- Designated Program Manager / Enrollment

Support Services

- DAAD Scholarship of € 1,000
- Accommodation Offer by Student Union
- 10 ECTS Credits
- Designated Program Manager / Enrollment

Sandra Lessing | TUM Global & Alumni Office | TUM PREP | September 2023
Testimonials of students participating in TUM PREP 2023
Testimonials by 2023 participants

Ojus Sharma (University of British Columbia)

"TUM PREP provided an exceptional platform for learning, personal growth, and immersion in Munich's charm. Through the program, my skills as an aspiring Computer Scientist expanded significantly, and I forged unforgettable memories with my incredible peers. I thoroughly enjoyed and treasure my time in Munich."

Laurentiu Marchis (Imperial College London)

“So far I really enjoy the project as it is fairly open ended and gives me the opportunity to come up with new ideas and observe their implications through mathematical and computational means. Also, I get to see other applications of probabilistic and statistical methods to Machine Learning, which I find intriguing. [........] .... able to accomplish by combining our research with outdoor activities. I can safely say that this summer is one of the best I've had so far because of the people I'm with, my interest in the research I'm doing and the exciting leisure time plans.”
Introduction of TUM and TUM campuses
Munich

- ~ 1.5 million inhabitants (3rd largest city in Germany)
- ~ 115,000 students
- 38% of its population have an international background
- Belongs to the world's most livable cities (#2 QS Best Student Cities)
- Offers a variety of high-quality leisure activities: hiking in the Alps, numerous architectural and cultural attractions, outstanding museums, river surfing in the English Garden; the Oktoberfest and much more…
# TUM at a Glance

<table>
<thead>
<tr>
<th>Students</th>
<th>Professors</th>
<th>Schools / Departments</th>
<th>Degree Courses</th>
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<tbody>
<tr>
<td>&gt; 50,400</td>
<td>643</td>
<td>8 / 15</td>
<td>181</td>
</tr>
<tr>
<td>36% female</td>
<td></td>
<td></td>
<td>~100 Masters</td>
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<tr>
<td>38% internat.</td>
<td></td>
<td></td>
<td>50% in English</td>
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- **University of Excellence since 2006**
- **No. 1: German Technical University I Top 4 in Europe**
- **No. 2: Innovative University in Germany**
- **No. 1: International University in Germany**
- **Entrepreneurial University**
  - 800+ Start Ups (78 in 2022) Since ‘90
- **Nobel Prize Laureates / Patents**
  - 18 / 73

(Image: Andreas Heddergott / TUM)

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TUM in Rankings

Best Global Universities
U.S. N&W Report 2020

Nature Index – Top Academic Institutions 2020

Academic Ranking of World Universities „Shanghai“ 2021

Reuters Most Innovative Universities 2019

THE World University Rankings 2021

QS World University Rankings 2021

Global University Employability Ranking 2020

TUM Campuses in Germany

- Garching
  - 20 km / ~12 miles
- Munich
  - 150 km / ~95 miles
- Weihenstephan
  - 40 km / ~25 miles
- Straubing
  - 180 km / ~112 miles
- Heilbronn
  - 280 km / ~175 miles

(city campus / main campus)
TUM Schools and Departments

Our Schools’ research and teaching focus on furthering sustainable innovation for the good of humankind, nature and society.

- Computation, Information and Technology
- Engineering and Design
- Natural Sciences
- Life Sciences
- Management
- Social Sciences and Technology
- Medicine
- Sport and Health Sciences
TUM PREP – Application & Matching Process
34 participants from 14 universities

UK: Imperial College London
CAN: Université de Montréal - University of Alberta – University of Toronto – University of British Columbia
TUM PREP – Timeline 2023/24

Application Period
(Deadline: Nov. 22, 2023)

Partner Institutions will be informed of acceptance
(scholarship nomination forms)

Selection Process
(Students will get offered a project spot)

8 weeks of research work in TUM PREP projects

Kick-off Event / Reception
Promotion of the program at partner universities

Closing Event

Admission and enrollment process / Accommodation offer / Visa application

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TUM PREP - Online Application

NAT 01-Electrochemistry

Enhance your chances and apply for max. 3 project priorities

Application Deadline: Nov. 22, 2023

<table>
<thead>
<tr>
<th>Project Overview</th>
<th>Project Code: NAT 01</th>
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<tbody>
<tr>
<td>Project name:</td>
<td>Electrochemical Energy Conversion and Storage</td>
</tr>
<tr>
<td>TUM Department:</td>
<td>NAT - Chemistry</td>
</tr>
<tr>
<td>TUM Chair / Institute:</td>
<td>Chair of Technical Electrochemistry</td>
</tr>
<tr>
<td>Research area:</td>
<td>Lithium-ion batteries, PEM fuel cells, PEM water electrolysis</td>
</tr>
<tr>
<td>Student background:</td>
<td>Chemical Engineering, Chemistry, Electrical Engineering, Physics</td>
</tr>
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</table>
Online Application platform

Apply for TUM PREP between October 1 and November 22, 2023 via an online application form

https://www.international.tum.de/en/global/prep/

Application documents can be downloaded from the website:

- **1 Motivation letter per research project**
  (apply for max. 3 projects)
- **Transcript of Records**
  (min. GPA of 3.0 on a U.S. scale 4.0)
- **Letter of Recommendation by Supervisor**
- **Declaration of Insurance**
  (Information on mandatory and/or recommended insurances)
TUM PREP – Impression of TUM 2023 and previous years
TUM PREP 2023 – Kick-off event
TUM PREP – Orientation Days

(Images: Lessing / TUM)
TUM PREP – Orientation Days

(Images: Lessing / TUM)
TUM PREP Research Projects
TUM PREP – Framework Program

(Image: Cho / participant)  (Image: Luessmann / TUM)

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TUM PREP 2023 – Closing Event
Orientation Days & Framework Program
TUM PREP – Orientation Days 2024

Monday, July 1, 2024
• Kick-off event for students
• TUM Campus Tour
• Kick-off Reception with participants, supervisors & buddies

Tuesday, July 2, 2024
• Intercultural training (IKK)
• Top of Sant Peter’s church „Alter Peter“ & Munich sightseeing tour

Wednesday, July 3, 2024
• German Bank Account opening
• Olympic parc or Castle of Nymphenburg
TUM PREP – Framework Program 2024

TUM PREP Beergarden evenings with TUM buddies 1 x week

German „Survival“ language class

Day trip excursions
• Castle „Herrenchiemsee“ at lake Chiemsee
• Mediival city of Regensburg

Activities
• Guided tour through „Deutsches Museum“
• Lecture on Master programs at TUM and Information on TUMexchange

TUM PREP Closing Event
• Wrap-up with participants followed by a small event August 29, 2024

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TUM PREP 2024 – Enrollment Process, Accommodation and Estimated Expenses
Enrollment process – how to enroll?

In early February 2024, all accepted students for the TUM PREP program will receive the official TUM admission letter with detailed instructions on the enrollment process. Enrollment needs to be completed latest by March 31, 2023.

- **Transfer the semester fee**
- **Contact a German statutory health insurance provider** for either
  - an *exemption letter* (existing insurance will be accepted) or
  - *take out a health insurance policy* with a German health insurance provider.
  TUM will be informed electronically.
  Please find the contact details on the TUM PREP website.
- **Upload a passport-style picture in TUMonline** (student’s service portal)
Accommodation Offer by the Student Union Munich

We offer all accepted students a room in a student dormitory offered by the Student Union Munich. Housing is **not on campus** but spread out through the city of Munich. The TUM PREP group will be divided between two or three Student Union residencies.

- Exception for TUM PREP students **to rent the room for only three months** (from July to September) instead of six months (entire semester).
- Rental agreement with Student Union directly. **Rent** depends on the room and **varies from € 380 – 450 per month**. The complete **payment** needs to be transferred in advance in **early March 2024**.
- The refundable **deposit** for the room is up to **€ 500**. This amount will be refunded after the end of the semester; i.e. end of September 2024.
## Estimated Expenses

### + TUM Scholarship (DAAD):

1,000 € (only for students who are not funded outside of TUM PREP, travel grants are combinable) / Late payout at the end or even after program participation!

### - Accommodation for 3 months:

- ~ 1,200 € - 1,300 € (approx. € 380 - € 450 per month)
- ~ 500 €

[Dorm Security Deposit*]: ~ 500 € (refunded at the end of the summer semester)

### - Cost of Living:

~ 500 € - 600 € (per month)

### - German Health Insurance:

~ 660 – 700 € (student insurance for the entire semester)

### - Enrollment Fee:

~ 85 €

### - Deutschlandticket:

~ 29 € (per month - public transport throughout Germany)

### - Travel Expenses:

~ 300 - 1,000 €

### - Visa Expenses (if applicable):

~ 100 €

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Certificates & ECTS
TUM PREP – Certificates

- **Certificate of Research Stay** (evaluation report by TUM PREP supervisor)
- **Certificate of Participation** (issued by TUM Global & Alumni Office)
- **Transcript of Records** (can be downloaded from TUMonline by the participant)

► Students will receive **10 ECTS** credits for successful participation and can have these recognized by their home universities.
TUM PREP Online Application platform will be open from October 1 until November 22, 2023.

Please invite your students to a virtual Information Event on October 25, 2023

(Zoom Link is provided on the website).

We look forward to receiving your student's applications.
Questions?
Contact

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