



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



Table of Contents

Master's degree	2
Elite Master's in Biomedical Neuroscience (MSc) • Technical University of Munich • München	2

Master's degree



Elite Master's in Biomedical Neuroscience (MSc)

Technical University of Munich • München



Overview

Degree	Master of Science (MSc)
In cooperation with	Elite Network of Bavaria (Elitenetzwerk Bayern)
Teaching language	<ul style="list-style-type: none">English
Languages	Courses in the Master's programme are taught in English only.
Full-time / part-time	<ul style="list-style-type: none">full-time
Programme duration	4 semesters
Beginning	Winter semester
Application deadline	31 May for the following winter semester intake
Tuition fees per semester in EUR	Varied
Additional information on tuition fees	Please refer to the following website for more information on tuition fees at TUM: https://www.tum.de/en/studies/fees/tuition .
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No

Description/content

Biomedical Neuroscience is an interdisciplinary programme executed by lectures from natural science institutes as well as from clinicians and clinical scientists. The aim of the programme is an intensive education in the field of basic neuroscience and neuropsychiatric diseases. This includes both the theoretical background and the technical skills for commonly used experimental approaches in basic and clinical research. Teaching is performed in a combination of theory and

hands-on classes and includes project-oriented scientific work in the laboratories of the participation institutes. Furthermore, data analysis, scientific ethics, management and communication are part of the curriculum.

The qualification profile of the graduates includes an in depth understanding of brain function and structure, from molecules and cells to large-scale circuits, behaviour and the mechanisms and treatment strategies of different neuropsychiatric diseases. Through their lab rotations and practical scientific work, the students will become familiar with the most relevant technologies for basic and clinical research and with their capabilities in the field of neuroscience. Students who successfully complete the programme will be able to evaluate scientific data and apply appropriate statistical tests. Our graduates will enter a growing market – so the career prospects of the graduates of the MSc BmN programme will be extremely good in basic academic research, clinical settings and in industry.

In a nutshell:

- **Elite MSc training in biomedical neuroscience** for natural science and medical students
- **Unique expertise** at TUM closely linked to the **Excellence Initiative** and **DZNE**
- **Excellent resources** via TUM strategy to develop neurosciences and medical teaching
- **Early hands-on courses** as an integral training element
- **Innovative scientific-didactic concept**
- Institutionalised **international collaboration** with ELSC / Hebrew University
- **Close integration with existing, international, top-level PhD programme** for follow-up studies
- **“Frontier science”** with **excellent job prospects** in academia and industry

Course Details

Course organisation

First semester

- Molecular Neuroscience
- Cellular Neuroscience
- Neuroanatomy and Neuropathology
- Molecular Biology and Omics Approaches
- Microscopy of Nervous System Structure
- Scientific practice
- Life & science
- Data acquisition, analysis and presentation

Second semester

- Nervous System and Circuit Development
- Systems Neurology and Neuroscience
- Nervous System Disorders and Treatment
- Computational Analysis and Modelling
- Neuroimaging and Electrophysiology
- Scientific practice
- Life & science
- Data acquisition, analysis and presentation

Third semester

- Qualifying colloquium
- Lab rotation (I–II)
- Data acquisition, analysis and presentation

Fourth semester

- Master's thesis and colloquium

be issued

International elements

- International guest lecturers
- Courses are led with foreign partners
- International comparisons and thematic reference to the international context

Special promotion / funding of the programme

- Other (e.g. state level)

Course-specific, integrated German language courses

No

Course-specific, integrated English language courses

No

Costs / Funding

Tuition fees per semester in EUR

6,000 EUR

Additional information on tuition fees

Please refer to the following website for more information on tuition fees at TUM: <https://www.tum.de/en/studies/fees/tuition>.

Semester contribution

Please refer to this page for more details: <https://www.tum.de/en/studies/fees>.

Costs of living

In order to cover personal expenses while studying in Munich, we recommend a budget of at least 900 EUR per month.

Please refer to the following page for more information: <https://www.studentenwerk-muenchen.de/en/international/international-students-in-munich/in-preparation/cost-of-living/>.

Funding opportunities within the university

Yes

Description of the above-mentioned funding opportunities within the university

<https://www.tum.de/en/studies/fees-and-financial-aid/scholarships/>

Many international students can have their fees waived or receive scholarships to finance them. You can find [all information on waivers and scholarships](#) here.

Requirements / Registration

Academic admission requirements

To be eligible to apply for the MSc Biomedical Neuroscience, students will be required to have a Bachelor's degree or equivalent from a university that is rated H+ on the [Anabin](#) website in a field of natural sciences such as biology, biochemistry, molecular medicine, physics or an equivalent degree.

Alternatively, applicants who have completed at least five years of medical studies and have passed the second part of the state examination in medicine or veterinary medicine are eligible to apply as well.

Language requirements	<ul style="list-style-type: none">• "Test of English as a Foreign Language" (TOEFL iBT): min. 88 points• "International English Language Testing System" (IELTS): min. band score of 6.5• "Cambridge Main Suite of English Examinations" (FCE): min. B2• English examination modules completed during your undergraduate/Bachelor's degree may be used as proof of your English language proficiency: min. 10 credits
------------------------------	--

Application deadline 31 May for the following winter semester intake

Submit application to	<p>In order to apply at TUM, you need to open a TUMonline account: https://campus.tum.de/tumonline/webnav.ini.</p> <p>Our application wizard will guide you step by step through the online application procedure.</p> <p>For more information, check: https://www.tum.de/en/studies/application-and-acceptance/online-application/.</p>
------------------------------	--

Services

Possibility of finding part-time employment Please refer to the following page for more details: <https://www.tum.de/en/studies/during-your-studies/living-and-working/jobs-and-internships>.

Accommodation It's not easy to find a place to live in Munich – but it's not impossible either! The Technical University of Munich (TUM) supports students and staff in their search for accommodation by providing personal advice, in-house listings and useful information to ensure that you can quickly find a place to call your own.

For more information, see: <https://www.tum.de/en/studies/during-your-studies/living-and-working/accommodations>.

Support for international students and doctoral candidates

- Welcome event
- Tutors

General services and support for international students and doctoral candidates Financial support for German language courses

Our Partners



————— Technical University of Munich —————



TUM School of Medicine and Health

© Silke Herzer

The Technical University of Munich (TUM) is one of Europe's leading research universities, with around 550 professors, 41,000 students, and 10,000 academic and non-academic staff. Its focus areas are the engineering sciences, natural sciences, life sciences and medicine, combined with economics and social sciences. TUM acts as an entrepreneurial university that promotes talents and creates value for society, in that it profits from having strong partners in science and industry. It is represented worldwide with the TUM Asia campus in Singapore as well as offices in Beijing, Brussels, Cairo, Mumbai, San Francisco, and São Paulo. Nobel Prize winners and inventors such as Rudolf Diesel, Carl von Linde, and Rudolf Mößbauer have done research at TUM. In 2006 and 2012, it won recognition as a German "Excellence University". In international rankings, TUM regularly places among the best universities in Germany.



University location

Munich is a city with a cosmopolitan, international outlook. In all areas of life - from economy to science, culture to sport, nightlife to nature - people from all over the world are drawn to Munich's creative, dynamic happening lifestyle. TUM's historic campus is located right in the middle of the city's museum quarter. You can go straight from a conference at a major company's HQ to the peaceful expanse of the "English Gardens". Germany's largest university sports community is based in the Olympic Park. From the roof terrace of TUM's city campus, the Alps look close enough to touch, and the clear waters of the Bavarian lakes are just an hour away.

Contact

Technical University of Munich
School of Medicine and Health

Dr Silke Herzer

Biedersteiner Straße 29
80802 München

Tel. +49 8941403376

✉ bioneuro.sto@mh.tum.de

🌐 Course website: <https://www.med.tum.de/en/Academics/MSc-Biomedical-Neuroscience>

📘 <https://de-de.facebook.com/TU.Muenchen>

🐦 https://twitter.com/tu_muenchen

🌐 <https://www.linkedin.com/company/101569976/admin/feed/posts/>

📷 <https://www.instagram.com/tu.muenchen/?hl=de>

Last update 03.12.2024 01:44:03

International Programmes in Germany - Database

www.daad.de/international-programmes

www.daad.de/sommerkurse

Editor

DAAD - Deutscher Akademischer Austauschdienst e.V.

German Academic Exchange Service

Section K23 – Information on Studying in Germany

Kennedyallee 50

D-53175 Bonn

www.daad.de

GATE-Germany

Consortium for International Higher Education Marketing

www.gate-germany.de

Disclaimer

The data used for this database was collected and analysed in good faith and with due diligence. The DAAD and the Content5 AG accept no liability for the correctness of the data contained in the "International Programmes in Germany" and "Language and Short Courses in Germany".

The publication is funded by the German Federal Ministry of Education and Research and by contributions of the participating German institutions of higher education.



Federal Ministry
of Education
and Research