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Master's degree



Master's in Sustainable Management & Technology (MSMT)

Technical University of Munich • Straubing



Overview

Degree	Master of Science in Sustainable Management and Technology
Teaching language	<ul style="list-style-type: none">English
Languages	All of the courses in the programme are offered 100% in English.
Full-time / part-time	<ul style="list-style-type: none">full-time
Programme duration	4 semesters
Beginning	Winter and summer semester
Additional information on beginning, duration and mode of study	Start of winter semester: October Start of summer semester: April
Application deadline	Application period for winter semester between 1 April to 31 May and for summer semester between 1 November to 30 November
Tuition fees per semester in EUR	4,000 EUR
Additional information on tuition fees	At the Technical University of Munich (TUM), tuition fees are charged for international students from non-EU countries who newly enrol in a degree programme starting in the winter semester of 2024/25. For more information, please see here .
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	Shape the future of businesses with cutting-edge expertise in innovative biotechnologies

Increasing social interest in sustainability-oriented business, changes in consumer behaviour toward renewable and regenerative products, political agreements and regulations with stricter environmental and climate targets have created a market where companies are now, more than ever, in demand to master the technological change toward climate-neutral and sustainable resource and technology management.

This structural change requires specialists with a business education based on sustainable concepts as well as knowledge in energy and process technology, biotechnology, and material sciences in order to be able to redesign internal company production processes towards resource-saving and sustainable supply chains. This also includes approaches to circular economy. The aim is to develop holistic approaches for the comprehensive use of renewable raw materials and waste and to be able to evaluate and optimise these in terms of their benefits. In addition, a global perspective is necessary, since companies are in international competition and should be enabled to contribute to the achievement of global sustainability goals.

Professors, researchers, and students focus on the use of renewable resources and the development of sustainable technologies as well as on their economic implementation. The focus of their work is research and teaching on cultivation, chemical-material use, and energy recovery as well as on economic aspects related to the production, marketing, and use of renewable raw materials.

The interdisciplinary Master's programme in Sustainable Management and Technology bridges the gap between business and technical areas of enterprise. Additionally, it trains the leaders of tomorrow's sustainable economy to understand and shape entrepreneurial developments and their impact on society and the economy in the necessary depth and complexity.

Course Details

Course organisation

The Sustainable Management and Technology Master's programme is offered with two options for specialisation: Major in Biotechnology and Material Sciences and Major in Sustainable Management. Each major is divided into four areas: Fundamentals in Sustainable Management, Electives in Management and Technology, Specialisation in Engineering and Natural Sciences and the Master's thesis.

1. In Fundamentals in Sustainable Management (30 ECTS), students gain in-depth knowledge in the areas of economics, sustainability, and research methodology.
2. Electives in Management and Technology include modules from the fields of social sciences, economics, engineering, and natural sciences. Here, students can expand their knowledge in these areas and sharpen their skills profile. In addition, students can also choose a project study. This creates the opportunity to transfer theoretical knowledge into practice in engineering and science-related companies. For the major in Biotechnology and Material Sciences, at least 30 ECTS, for the major in Sustainable Management at least 45 ECTS are required in this area.
3. In the elective area Specialisation in Engineering and Natural Sciences, the technical and scientific fundamentals along the value chains up to the utilisation of residual materials are taught. Students gain and expand knowledge from the field of key technologies in sustainable chemistry and energy management, biotechnology, material sciences and digitalisation. Training in various disciplines creates a link between scientific and engineering fundamentals and management decisions. For the major in Biotechnology and Material Sciences, at least 30 ECTS, for the major in Sustainable Management at least 15 ECTS are required in this field.
4. Master's thesis (30 ECTS)

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A Diploma supplement will be issued

Yes

International elements

- Projects with partners in Germany and abroad
- International guest lecturers
- Specialist literature in other languages

- Integrated/optional study abroad unit(s)

Integrated/optional study abroad unit(s)	Possibility to apply for a semester abroad
Integrated internships	Internships are optional. While we cannot directly arrange an internship for you, we provide a wide range of support services.
Course-specific, integrated German language courses	No
Course-specific, integrated English language courses	No

Costs / Funding

Tuition fees per semester in EUR	4,000 EUR
Additional information on tuition fees	At the Technical University of Munich (TUM), tuition fees are charged for international students from non-EU countries who newly enrol in a degree programme starting in the winter semester of 2024/25. For more information, please see here .
Semester contribution	All students are required to pay the student union fees for each semester they are enrolled. For details and further information on fees and financial aid, please find more information here .
Costs of living	In order to cover personal expenses while studying in Straubing, we recommend a budget amounting to at least 865 EUR per month for accommodation, living, health insurance, books, and miscellaneous expenses. Check our website for information on living in Straubing: https://www.mgt.tum.de/campuses/straubing/living-in-straubing .
Funding opportunities within the university	Yes
Description of the above-mentioned funding opportunities within the university	Information on funding and financial aid can be found on our website: https://www.tum.de/en/studies/fees-and-financial-aid/scholarships/ .

Requirements / Registration

Academic admission requirements	<ul style="list-style-type: none"> • A qualified Bachelor's degree of at least six semesters obtained at a domestic or foreign university or a degree of at least equivalent value in the fields of technology and management-oriented business administration, bioeconomics, business administration, economics, or comparable courses of study • In addition, a GMAT(classic/focus) with at least 65% percentile ranking is required if you have obtained your first degree (usually a Bachelor's degree) in China, Egypt, India, Pakistan, or Bangladesh.
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- Passing the aptitude assessment

Language requirements	Evidence of adequate English language skills is required; please find the detailed language requirements here: https://www.tum.de/en/studies/application/application-info-portal/admission-requirements/language-certificates
Application deadline	Application period for winter semester between 1 April to 31 May and for summer semester between 1 November to 30 November
Submit application to	In order to apply at TUM, you need to open a TUMonline account: https://campus.tum.de/tumonline/webnav.ini . Our application wizard will guide you step by step through the online application procedure. For more information, check: https://www.tum.de/en/studies/application-and-acceptance/online-application/ .

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	The Technical University of Munich (TUM) supports students and staff in their search for accommodation by providing personal advice, listings for housing, and useful information to ensure that they can quickly find a place to call their own: https://www.cs.tum.de/prospective-students/housing/?lang=en .
Career advisory service	TUM School of Management wants all of its students to enjoy a successful and fulfilling career, which starts from the first semester onwards. We offer a range of support services to help students along this path, for example: <ul style="list-style-type: none"> • an online job board, which provides details of current openings at companies – full-time jobs as well as internships, working student jobs, project studies, student assistant jobs at the faculty/school, or other part-time jobs (known as "Minijobs" in Germany) • frequent career events with TUM School of Management's corporate partner companies, during which students can get in touch with Germany's leading employers • career coaches that may provide useful hints and advice on applying for jobs in Germany
Support for international students and doctoral candidates	<ul style="list-style-type: none"> • Welcome event • Buddy programme
General services and support for international students and doctoral candidates	Online and on-site information sessions



©TUM Straubing campus

Martin Schramm

Master's student in
Sustainable Management &
Technology

This programme offers me the best conditions to exchange ideas with fellow students outside the lectures, especially in the field of sustainability. For example, a new network of newly founded student initiatives is currently being established.



Studying the Master's programme in Sustainable Management & Technology at TUM Straubing Campus

Are you interested in driving green transformation and developing sustainable technologies in companies?

The interdisciplinary Master's programme in Sustainable Management and Technology bridges the gap between business and technical areas of enterprise. Additionally, it trains leaders of tomorrow's sustainable economy to understand and shape entrepreneurial developments. Register now!

» more:

<https://www.youtube.com/watch?v=BxEPkoo4lxc>

Technical University of Munich



TUM Straubing campus

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The TUM Straubing campus is part of the Technical University Munich (TUM). TUM is one of Europe's leading research universities, with around 600 professors, 45,000 students, and 11,000 academic and non-academic staff. The focus areas of TUM are engineering sciences, natural sciences, life sciences and medicine, combined with social sciences and economics.

TUM was one of the first universities in Germany to be awarded the title "University of Excellence" and secured this title for the third time in a row in 2019. Due to its high academic standard, the university also regularly occupies top positions among the best German universities in international rankings. With its focus on entrepreneurship, TUM aims to promote talents and to create value for society. The university also forges strong links with companies and scientific institutions across the world.

The development of sustainable technologies on the one hand and their economic implementation on the other – these are the two major topics that the TUM Straubing campus brings together as the so-called "Integrative Research Center" of the Technical University Munich. This requires scientifically and technically trained specialists, chemists, biotechnologists and engineers who also have a broad understanding of the economic and social interrelationships, or economists who understand the language of the technicians. Based on this approach, research and teaching capacities in Straubing are being systematically expanded.

TUM is represented in Germany with campuses in Munich, Heilbronn, Garching, Weihenstephan, and Straubing as well as worldwide with the TUM Asia campus in Singapore and offices in Beijing, Brussels, Cairo, Mumbai, San Francisco, and São Paulo.



University location

Welcome to the hidden gem of Lower Bavaria!

The Master's in Sustainable Management & Technology is a study programme of the TUM School of Management, which can be studied exclusively at the TUM campus in Straubing.

In Straubing, you will benefit from modern teaching rooms and research laboratories within stylishly renovated historical buildings. Furthermore, small student numbers, individual support by professors, short distances, and a variety of student projects ensure optimal study conditions and familiar campus life.

Situated on the Danube River just 130 km north-east of Munich, the city is bursting with medieval charm. Its outstanding Gothic and Baroque buildings make it the perfect place to discover the unique culture, history, and character of Lower Bavaria. That being said, Straubing is by no means just a fascinating historical location: this city charms with its cosy and student friendly atmosphere, buzzing with life and activities.

Straubing is a great place to live in. Rents for apartments are low, and the colourful variety of cafés, lounges (and also a beach bar), combined with the city's proximity to the enchanting Bavarian Forest and its skiing areas make Straubing a highly desirable location. For relaxation, there's a great open-air and indoor swimming pool complex with thermal and mineral waters, several gyms and other sports offers, a zoo with more than 200 different species, the former grounds of the state garden show, boat trips on the Danube and excellent

cultural life.

Contact

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🌐 Course website: <https://www.mgt.tum.de/programs/master-in-sustainable-management-technology>

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

🐦 https://twitter.com/tu_muenchen

🌐 <https://www.linkedin.com/school/technische-universitat-munchen/>

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

📺 <https://www.youtube.com/c/TUMSchoolofManagement/featured>

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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

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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".

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