



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service



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# Master's degree



## Master of Science in Industrial Chemistry

Technical University of Munich • Singapore

### Overview

Degree	Master of Science in Industrial Chemistry
In cooperation with	National University of Singapore (NUS)
Teaching language	<ul style="list-style-type: none"><li>English</li></ul>
Languages	Courses are held in English only (100%). Participants must write their Master's theses in English.
Full-time / part-time	<ul style="list-style-type: none"><li>full-time</li></ul>
Programme duration	4 semesters
Beginning	Winter semester
Application deadline	31 March
Tuition fees per semester in EUR	Yes
Additional information on tuition fees	Please refer to <a href="https://tum-asia.edu.sg/admissions/graduate/msc-industrial-chemistry/">https://tum-asia.edu.sg/admissions/graduate/msc-industrial-chemistry/</a> for the latest tuition fee updates.
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	Yes
Description/content	<p>During the coursework in the first and second semester, students will have to complete core and elective modules.</p> <p>Each module has 45 contact hours and is accompanied by a practical. The modules and practicals will take place at facilities at NUS or TUM Asia and will be conducted by TUM professors or NUS professors.</p> <p><b>Pre-Essential Modules</b></p> <ul style="list-style-type: none"><li>Business and Technical English</li></ul>

- Chemistry Laboratory Course

#### Core Modules

- Organometallic Chemistry
- Inorganic and Material Chemistry
- Chemical Reaction Engineering
- Polymer and Macromolecular Chemistry

Students will be able to choose from three specialisations: "Catalysis and Petrochemistry", "Building and Material Science" or Interdisciplinary Module Combination:

#### Specialisation One: Catalysis and Petrochemistry

- Molecular and Heterogeneous Catalysis
- Petroleum and Petrochemical Processes
- Unit Operations

#### Specialisation Two: Building and Material Science

- Building Chemistry and Construction Chemicals
- Material Chemistry and Engineering
- High Performance Polymers

#### Specialisation Three: Interdisciplinary Module Combination

- Free Choice Specialisation 1
- Free Choice Specialisation 2
- Free Choice Specialisation 1 or 2 from the list of Elective Modules

#### Non-technical Elective Modules

- Business Administration
- Legal and Safety Aspects in the Industry
- Production Planning in Industry
- Innovation and Technology Management
- Industrial Marketing
- Modern Developments in Industry
- International Intellectual Property Law

#### NUS Elective Modules

- Advanced Reaction Engineering
- Advanced Organic Chemistry
- Modern Analytical Techniques
- Trace Analysis
- Topics in Environmental Chemistry

#### Internship

#### Master's thesis

\*Disclaimer: Specialisation and Elective modules available for selection are subject to availability. Unforeseen circumstances that affect the availability of the module include an insufficient number of students taking up the module and/or the unavailability of the professor. TUM Asia reserves the right to cancel or postpone the module under such circumstances.

## Course Details

### Course organisation

The first two semesters comprise all theoretical and practical modules and will be held in Singapore together with the partner university, National University of Singapore (NUS). After the coursework, all students are required to complete a mandatory internship with an industrial

partner and a six-month Master's thesis. Internship and Master's thesis can be done either in Singapore, Germany, or in any other country in Asia, Europe or the rest of the world.

All coursework is conducted in English, and students will be taught by professors from TUM, NUS, or other highly ranked universities in Germany or Asia.

<b>A Diploma supplement will be issued</b>	No
<b>International elements</b>	<ul style="list-style-type: none"> <li>• International guest lecturers</li> <li>• Training in intercultural skills</li> <li>• Courses are led with foreign partners</li> <li>• International comparisons and thematic reference to the international context</li> <li>• Content-related regional focus</li> </ul>
<b>Integrated internships</b>	<p>After the coursework, each student has to complete a mandatory internship in the industry or with an academic institution. It is required for the student to complete an internship related to his or her field of study at TUM Asia.</p> <p>One can secure an internship in Singapore, Germany, or in any other country in Asia, Europe or the rest of the world. Students who have secured scholarships with their sponsoring companies will conduct their internships in these companies (this can be conducted in any branch of the company worldwide). Students without industrial sponsorship are to look for internships independently. It is expected that all students take an active approach in this search for internships. TUM Asia will help provide students with any possible internship opportunities, but students are to lead the search for internships on their own.</p>
<b>Special promotion / funding of the programme</b>	<ul style="list-style-type: none"> <li>• DAAD</li> <li>• Other (e.g. state level)</li> </ul>
<b>Name of DAAD funding programme</b>	Surplace
<b>Course-specific, integrated German language courses</b>	No
<b>Course-specific, integrated English language courses</b>	Yes

## Costs / Funding

<b>Tuition fees per semester in EUR</b>	Yes
<b>Additional information on tuition fees</b>	Please refer to <a href="https://tum-asia.edu.sg/admissions/graduate/msc-industrial-chemistry/">https://tum-asia.edu.sg/admissions/graduate/msc-industrial-chemistry/</a> for the latest tuition fee updates.
<b>Semester contribution</b>	Included in tuition fees
<b>Funding opportunities</b>	Yes

## within the university

Description of the above-mentioned funding opportunities within the university

Please refer to <https://tum-asia.edu.sg/admissions/graduate/scholarships/> for available scholarships.

## Requirements / Registration

**Academic admission requirements**

- Applicants must hold a minimum three-year Bachelor's degree or equivalent in chemistry, chemical engineering or an equivalent degree in another relevant discipline.
- Applicants must pass a written test and/or interview with the Joint Admission Board of the Faculties of Chemistry of NUS and TUM.
- "Academic Testing Center" (APS) certificate is required for applicants with educational qualifications from China, Vietnam and India.

**Language requirements**

Applicants whose native language or medium of instruction from previous studies (e.g., Bachelor's programme) is not English must submit at least one of the following:

- TOEFL: minimum 605 for paper-based test, 234 for computer-based test, 88 for Internet-based test
- IELTS: overall IELTS results of at least 6.5

**Application deadline**

31 March

**Submit application to**

Technical University of Munich (Asia Campus)  
510 Dover Road SIT@SP Building  
#05-01 Singapore 139660

[admission@tum-asia.edu.sg](mailto:admission@tum-asia.edu.sg)  
[www.tum-asia.edu.sg](http://www.tum-asia.edu.sg)

## Services

**Possibility of finding part-time employment**

The programme is too intensive for part-time jobs.

**Accommodation**

As Singapore is a relatively small island city with easy access via public transport, students are able to reside in any residential zones convenient to them. TUM Asia has no in-campus accommodation facilities and our students search for their own accommodation that fits their budget and preferred area of residence. They may choose to live in student hostels when they first arrive in Singapore and, after they have made new friends at university, they rent and share a private apartment with some other friends/classmates. The living expenses in Singapore (including accommodation) are approximately 1,200 SGD per month. The actual amount will vary across individuals.

**Support for international students and doctoral candidates**

- Welcome event
- Tutors
- Visa matters

# Contact

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✉ [admission@tum-asia.edu.sg](mailto:admission@tum-asia.edu.sg)

🌐 Course website: <https://tum-asia.edu.sg/admissions/graduate/msc-industrial-chemistry/>

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

🐦 [https://twitter.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/user/TUMAsiaOfficial>

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# International Programmes in Germany - Database

[www.daad.de/international-programmes](http://www.daad.de/international-programmes)  
[www.daad.de/sommerkurse](http://www.daad.de/sommerkurse)

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## GATE-Germany

Consortium for International Higher Education Marketing  
[www.gate-germany.de](http://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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