



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service



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# Bachelor's degree



## Sustainable Engineering

Technische Universität Braunschweig • Braunschweig

### Overview

Degree	Bachelor of Science
Teaching language	<ul style="list-style-type: none"><li>• German</li><li>• English</li></ul>
Languages	<p>The lectures of the compulsory modules of the first four semesters are made available in English and German. The majority of these classes can be taken in English (or German); if a class is not taught in English, bilingual lecture notes and videos are provided.</p> <p>After that, lectures are usually held either in English or German. Students can choose to write their thesis in either language.</p>
Full-time / part-time	<ul style="list-style-type: none"><li>• full-time</li></ul>
Programme duration	6 semesters
Beginning	Winter semester
Application deadline	Non-EU applicants: 15 July for the following winter semester EU applicants: 15 October for the following winter semester
Tuition fees per semester in EUR	None
Joint degree / double degree programme	No
Description/content	<p>The study course combines the field of mechanical engineering with sustainability aspects. It is motivated by tremendous global changes, which are driven by the limited availability of resources, the challenges arising with man-made climate change, and the increasing complexity of interacting systems. Accordingly, technological change and a sustainable future are inseparably linked.</p> <p>Our study programme offers fundamentals of engineering science and equally addresses sustainability topics in the fields of mobility and production as well as processes and energy. These are represented as specialisation areas in the curriculum. The study programme is internationally oriented, and it targets students from Germany and from abroad.</p>

### Course Details

## Course organisation

The study programme consists of the following elements: compulsory modules, specialisation modules, integrated modules and project work, an internship and the Bachelor's thesis.

The first two semesters focus on fundamentals of mechanical engineering and mathematics as well as economic, environmental and social sustainability.

In the third semester, students choose between the three specialisation areas. Each specialisation area consists of compulsory modules and a laboratory as well as a catalogue of various elective modules. The proportion of specialisation modules in comparison to fundamentals increases continuously until the end of the studies. Most of the lectures are accompanied by tutorials. The study programme ends with the completion of the Bachelor's thesis.

Across all semesters, certain credit points are reserved for courses that address topics beyond the technical field of sustainable engineering. These courses can be particularly used to improve foreign language skills.

### A Diploma supplement will be issued

Yes

### International elements

- Language training provided
- International comparisons and thematic reference to the international context

### Description of other international elements

As the studies take place in an intercultural environment, internships abroad are supported.

### Integrated internships

An internship of 10 weeks is part of the study programme, preferably in companies that combine engineering technologies with sustainability.

### Course-specific, integrated German language courses

Yes

### Course-specific, integrated English language courses

Yes

## Costs / Funding

### Tuition fees per semester in EUR

None

### Semester contribution

In order to enrol at TU Braunschweig or to register back for the coming semester, you have to pay your semester contribution (currently approx. 364 EUR).

The semester contribution for example covers your semester ticket for public transport.

### Costs of living

By German standards, Braunschweig is not an expensive place to study. Nevertheless, you need a minimum of about 940 EUR per month to be able to study here successfully.

[More information about financing your studies can be found here](#)

### Funding opportunities within the university

Yes

Description of the above-mentioned funding opportunities within the university

TU Braunschweig has a scholarship programme for excellent students ("Deutschlandstipendium"). The stipend rate is 300 EUR per month.

[Information on funding can be found here.](#)

## Requirements / Registration

Academic admission requirements

Admission requires a university entrance qualification and the completion of an eight-week internship during which the students obtain basic mechanics skills (if the internship can't be completed before the start of the programme, it can be deferred until the end of the fourth semester). Further admission requirements are related to language requirements and are listed below.

Language requirements

Required language skills in German can be proven by one of the following: German "Abitur", completion of two years of school education in German, German as a school subject in the last eight years before acquisition of the university entrance qualification or successful completion of the DSH 1, Test-DaF 4x3 or a comparable test. If the German language skills are not met at the time of the application, students can still be admitted if they prove at least basic knowledge in German language (A2 level) at the time of their enrolment. In this case, German classes must be chosen as part of the studies, and students need to fulfil the language requirements by the end of the third semester.

Required language skills in English can be proven by one of the following: a university entrance qualification in an English-speaking country, completion of two years of school education in English language, English as school subject in the last eight years before acquisition of the university entrance qualification or successful completion of an internationally recognised test as stipulated in the admission regulations.

Our first-year foundation courses are available in both English and German, giving you the option to choose the language of instruction that best suits your needs. Whether you prefer to study in English, German, or both, we offer the flexibility to accommodate your preferences. Additionally, if you feel the need to improve your proficiency in German, you can enrol in our language classes as part of your curriculum.

Application deadline

Non-EU applicants: 15 July for the following winter semester  
EU applicants: 15 October for the following winter semester

Submit application to

<https://www.tu-braunschweig.de/en/international-students/application>

## Services

Possibility of finding part-time employment

Most institutes offer student researcher jobs with variable hours.

Accommodation

The Student Services OstNiedersachsen ("Studentenwerk") offer several dormitories: <https://www.stw-on.de/en/braunschweig/housing/>.

More information about finding housing is available here: <https://www.tu-braunschweig.de/en/freshmen-hub/important-informations/housing-search>.

Career advisory service

Mentoring programme for advanced Bachelor's and Master's students:([Mentor.ING](#))

Support for international students and doctoral candidates

- Welcome event
- Buddy programme
- Accompanying programme
- Cultural and linguistic preparation

General services and support for international students and doctoral candidates

TU Braunschweig offers a broad range of support programmes for all administrative, academic, social, and personal questions and challenges that international students may have.

[Read more about our International Student Support programme](#)

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## Contact

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🌐 Course website: <https://www.tu-braunschweig.de/en/fmb/students/bachelors-degree-programmes/sustainable-engineering-of-products-and-processes>

📘 <https://www.facebook.com/tubraunschweig>

🌐 <https://www.linkedin.com/school/tu-braunschweig/>

📷 <https://www.instagram.com/tu.braunschweig/?hl=en>

📺 <https://www.youtube.com/channel/UC8X4NAyIUr9Q12hVUOoqyhQ>

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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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[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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