



Technische
Universität
Braunschweig



Welcome to TU Braunschweig and SEPP

Christa Hellert, October 16th, 2025



Structure of TU Braunschweig



Technische
Universität
Braunschweig

Six faculties

Carl-
Friedrich-
Gauß-
Faculty

Faculty of
Life Sciences

Faculty of
Architecture,
Civil
Engineering
and
Environmental
Sciences

**Faculty of
Mechanical
Engineering**

Faculty of
Electrical
Engineering,
Information
Technology,
Physics

Faculty of
Humanities
and
Educational
Sciences

Central Facilities

(Library – GITZ – Language Centre – Sports Centre – etc.)



Technische
Universität
Braunschweig

Faculty of Mechanical Engineering



24 Institutes

Geschäftsstelle der Fakultät für
Maschinenbau / faculty's office

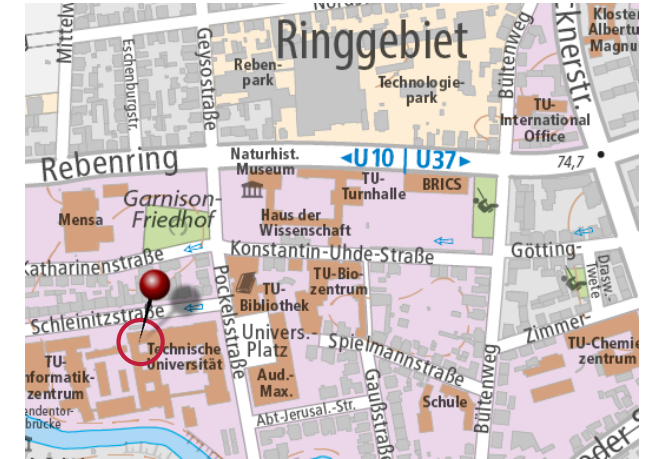
13 study programmes



The Faculty's Office / Geschäftsstelle

Your point of contact:

Schleinitzstraße 20
38106 Braunschweig
service-fmb@tu-braunschweig.de
0531 / 391-4040



SERVICEhours: **Mon, Tue:** 9:30 am – 12:00 pm
Thurs: 9:30 am – 12:00 pm and 1:30 – 4:00 pm

SERVICEpoint: Call or come by during SERVICEhours, no appointment necessary

SERVICEconsultation: Consultations during SERVICEhours, please book an appointment online via Timeacle

SERVICEonline: 24/7, <https://www.tu-braunschweig.de/fmb/studium>

The Faculty's Office / Geschäftsstelle

- **SERVICeteam:** Study guidance/counselling, Examination Office, Internship Office

Contact: service-fmb@tu-braunschweig.de | 0531 / 391-4040 during office hours

- **Course Coordinators:** Management and development of the faculty's study programmes (e. g. accreditation procedures and quality management), contact persons for faculty and staff with any questions regarding the study programmes.

Contact: studiengangsmanagement-fmb@tu-braunschweig.de

- **Managing Director , Secretary's office, PhD, PR and communication**
- **Dean** Prof. Dr.-Ing. Markus Böhl and **Dean of Studies** Prof. Dr.-Ing. Daniel Schröder

Your contact with the Faculty's Office

- Information regarding your studies or any other personal information can only be provided using your TU Braunschweig e-mail address. **Please check regularly!**
- Always give your name and student number.
- To enable full access to the university's online IT-services and to activate your official university e-mail account, please activate your "y-Nummer": <https://www.tu-braunschweig.de/en/it/tubs-id-freischalten>



The faculty's website

<https://www.tu-braunschweig.de/fmb>

🏠 > Struktur > Fakultäten



Fakultät für Maschinenbau



Maschinenbau@TU Braunschweig

Mit rund 3.000 Studierenden in fünf Bachelor- und acht Masterstudiengängen zählt die Fakultät für Maschinenbau zu den größten Fakultäten der Technischen Universität Braunschweig. Unsere Institute forschen und lehren in den Bereichen Kraftfahrzeugtechnik, Luft- und Raumfahrttechnik, Energie- und Verfahrenstechnik sowie Produktions- und Konstruktionstechnik. Technische Informationen, Kontaktadressen, Kontaktadressen, Kontaktadressen und Kontaktadressen für Studierende.

▼ Fakultät für Maschinenbau

Aktuelles

Termine

Pinut

Studium

Promotion

Habilitation

Stipendien und Preise

Institute & Forschung

International

Mentor.ING und Alumn.ING.

Gleichstellung und Familie

Tag des Maschinenbaus

Masch.Bau - Studierendenhaus

Fachschaft

Dekan | Studiendekan

- Latest news
- Important dates and deadlines
- Information about your course of study; downloads; forms etc.
- The faculty's institutes
- Outgoings and Incomings, double-degrees



First year

Course formats

- **Lecture (Vorlesung)**
 - Theoretical foundations of a subject are taught in the classroom
- **Excercise (Übung)**
 - Lecture contents are applied to examples and problems
- **Small exercise groups / tutorials (kleine Übung)**
 - Individual problem-solving in a small tutorial group
- **Laboratory (Labor)**
 - Theoretical foundations and scientific methods are applied in experiments
- **Block course (Blockveranstaltung), project work (Projektarbeit) etc.**



Modules

- During your bachelor studies you will have to complete a certain number of “modules”, specified in the specific part of the examination regulations.
- Modules contain a specified number of courses (Lehrveranstaltungen) such as lectures, exercises, laboratories...
- Modules are completed with an examination element (Prüfungsleistung) and/or course achievement / coursework (Studienleistung).
- You will receive “credit points” for completed modules. Credit points are a measurement of a module’s workload (180 CP need to be completed for the bachelor’s degree).

Curriculum

Compulsory Modules (85 credit points)

- Fundamentals of Mathematical Science and Information technology (31 CP)
- Sustainability (17 CP)
- Fundamentals of Engineering (23 CP)
- Engineering Applications (14 CP)

Specialisation Area (63 CP)

- Sustainable Production *OR*
- Sustainable Mobility *OR*
- Sustainable Energy and Process Engineering

Integrated Module (8 CP)

Internship (10 CP)

Bachelor's Thesis (14 CP)

Model Curriculum

The model curriculum of the course programme is a suggestion of how to organize your six semesters – you are free to organize it differently. Especially if you would like to take “Faszination Maschinenbau” in German, please attend the lecture in your first semester.

Semester 1		Semester 2		Semester 3		Semester 4		Semester 5		Semester 6	
Modul	LP	Modul	LP	Modul	LP	Modul	LP	Modul	LP	Modul	LP
Ingenieurmathematik A (Mathematics for Engineers A)	8	Ingenieurmathematik B (Mathematics for Engineers B)	8	Thermodynamik 1 (Thermodynamics 1)	5	Grundlagen des Konstruierens (Fundamentals of Engineering Design)	8	Pflicht/Wahlpflicht VT	5	Collaborative Work - Labor (Laboratory)	2
Technische Mechanik 1 (Engineering Mechanics 1)	8	Technische Mechanik 2 (Engineering Mechanics 2)	5	Strömungsmechanik (Fluid Mechanics)	5	Regelungstechnik (Control Theory)	5	Pflicht/Wahlpflicht VT	5	Pflicht/Wahlpflicht VT	5
Werkstoffwissenschaften (Materials Science)	6	Faszination Maschinenbau (Fascination Mechanical Engineering)	5	Digitale Werkzeuge (Digital Tools) - Einführung in die Programmierung	2	Digitale Werkzeuge (Digital Tools) - Methoden und Algorithmen	3	Pflicht/Wahlpflicht VT	5	Praktikum (internship)	10
Environmental and Social Sustainability in Engineering - Teil 1	3	Environmental and Social Sustainability in Engineering - Teil 2	3	Energy Systems	5	Pflicht/Wahlpflicht VT	5	Pflicht/Wahlpflicht VT	5	Abschlussmodul (bachelor's thesis)	14
		Sustainable Business Economics	6	Pflicht/Wahlpflicht VT (compulsory/elective modules specialisation)	5	Pflicht/Wahlpflicht VT	5	Pflicht/Wahlpflicht VT	5		
Überfachliche Profilbildung (Integrated Module)	4	Überfachliche Profilbildung (Integrated Module)	4	Pflicht/Wahlpflicht VT	5	Pflicht/Wahlpflicht VT	5	Collaborative Work - Projektarbeit (project work)	6		
29		31		27		31		31		31	

Summe 6 Semester: 180

First year model curriculum – option 1

First semester (winter)

- Mathematics for Engineers A (8 CP)
- Materials Science (6 CP)
- Engineering Mechanics 1 (8 CP)
- Environmental and Social Sustainability in Engineering part 1 (3 CP)
- Integrated Module courses (4 CP)

Second semester (summer)

- Mathematics for Engineers B (8 CP)
- Fascination Mechanical Engineering (5 CP)
- Engineering Mechanics 2 (5 CP)
- Sustainable Business Economics (6 CP)
- Environmental and Social Sustainability in Engineering part 2 (3 CP)
- Integrated Module courses (4 CP)

Semester 1		Semester 2	
Modul	LP	Modul	LP
Ingenieurmathematik A (Mathematics for Engineers A)	8	Ingenieurmathematik B (Mathematics for Engineers B)	8
Technische Mechanik 1 (Engineering Mechanics 1)	8	Technische Mechanik 2 (Engineering Mechanics 2)	5
Werkstoffwissenschaften (Materials Science)	6	Faszination Maschinenbau (Fascination Mechanical Engineering)	5
Environmental and Social Sustainability in Engineering - Teil 1	3	Environmental and Social Sustainability in Engineering - Teil 2	3
		Sustainable Business Economics	6
Überfachliche Profilbildung (Integrated Module)	4	Überfachliche Profilbildung (Integrated Module)	4
29		31	

First year model curriculum – option 2

First semester (winter)

- Mathematics for Engineers A (8 CP)
- Materials Science (6 CP)
- Engineering Mechanics 1 (8 CP)
- Environmental and Social Sustainability in Engineering part 1 (3 CP)
- Faszination Maschinenbau (5 CP)

Second semester (summer)

- Mathematics for Engineers B (8 CP)
- Fascination Mechanical Engineering (5 CP)
- Engineering Mechanics 2 (5 CP)
- Sustainable Business Economics (6 CP)
- Environmental and Social Sustainability in Engineering part 2 (3 CP)
- Integrated Module courses (5 CP)

Semester 1		Semester 2	
Modul	LP	Modul	LP
Ingenieurmathematik A (Mathematics for Engineers A)	8	Ingenieurmathematik B (Mathematics for Engineers B)	8
Werkstoffwissenschaften (Materials Science)	6		
Technische Mechanik 1 (Engineering Mechanics 1)	8	Technische Mechanik 2 (Engineering Mechanics 2)	5
Environmental and Social Sustainability in Engineering - Teil 1	3	Environmental and Social Sustainability in Engineering - Teil 2	3
Faszination Maschinenbau (Fascination Mechanical Engineering)	5	Sustainable Business Economics	6
		Überfachliche Profilbildung (Integrated Module)	5

30

27

Schedule Bachelor Sustainable Engineering of Products and Processes

Semester 1 (winter 2025/26)

	Mon	Tue	Wed	Thurs	Fri
8:00 – 8:45		Technische Mechanik 1 (VL)	Mathematics for Engineers A / Ingenieurmathematik A (VL)	Werkstoffwissenschaften (VL)	Technische Mechanik 1 (VL)
8:45 – 9:30		Technische Mechanik 1 (VL)	Mathematics for Engineers A / Ingenieurmathematik A (VL)	Werkstoffwissenschaften (VL)	Technische Mechanik 1 (VL)
9:45 – 10:30	Engineering Mechanics 1 (VL)			Engineering Mechanics 1 (VL)	Mathematics for Engineers A / Ingenieurmathematik A (UE)
10:30 – 11:15	Engineering Mechanics 1 (VL)			Engineering Mechanics 1 (VL)	Mathematics for Engineers A / Ingenieurmathematik A (UE)
11:30 – 12:15	Engineering Mechanics 1 (UE)	<i>Faszination Maschinenbau (VL)</i>			
12:15 – 13:00	Engineering Mechanics 1 (UE)	<i>Faszination Maschinenbau (VL)</i>			
13:15 – 14:00		Technische Mechanik 1 (UE)	<i>Faszination Maschinenbau (Projekt)</i>	Werkstoffwissenschaften (VL)	
14:00 – 14:45		Technische Mechanik 1 (UE)		Werkstoffwissenschaften (UE)	
15:00 – 15:45			Materials Science (VL)		
15:45 – 16:30			Materials Science (VL)		
16:45 – 17:30		Environmental and Social Sustainability in Engineering (VL/Teamprojekt)	Materials Science (VL)	Mathematics for Engineers A / Ingenieurmathematik A (VL)	
17:30 – 18:15		Environmental and Social Sustainability in Engineering (VL/Teamprojekt)	Materials Science (UE)	Mathematics for Engineers A / Ingenieurmathematik A (VL)	

Important notes about freshmen courses in winter 2025/26

- **“Kleine Übungen”**/small exercise groups are offered for the modules “Mathematics A” and “Engineering Mechanics 1” – you will have to sign up for a tutorial group; more information will be given during the first class.
- Freshmen courses start on Oct 22nd (Wed) except for
 “Environmental and Social Sustainability in Engineering” (start: Oct 21st, 2025)
 “Technische Mechanik 1 (VL)” (start: Oct 21st, 2025)
- **German language classes**: Registration has started, classes start on October 27th





Internship

Internships - Overview

Before your bachelor studies -
Basic Internship

8 weeks

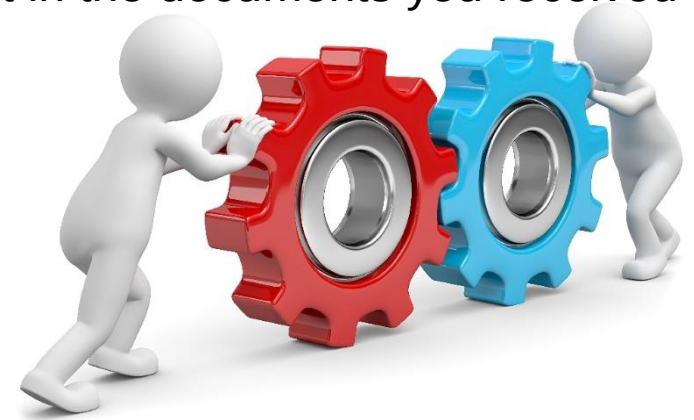
During your bachelor studies -
Engineering Internship

10 weeks

The Basic Internship (*Vorpraktikum* or *Basispraktikum*) is meant to be an introduction to industrial manufacturing and to teach key fundamental knowledge, specially in metal processing such as filing, spinning, milling, welding.

Please find more information about your internship and your internship report in the documents you received from the Enrolment Office as well as on our website:

<https://www.tu-braunschweig.de/fmb/studium/praktikum>



Basic Internship

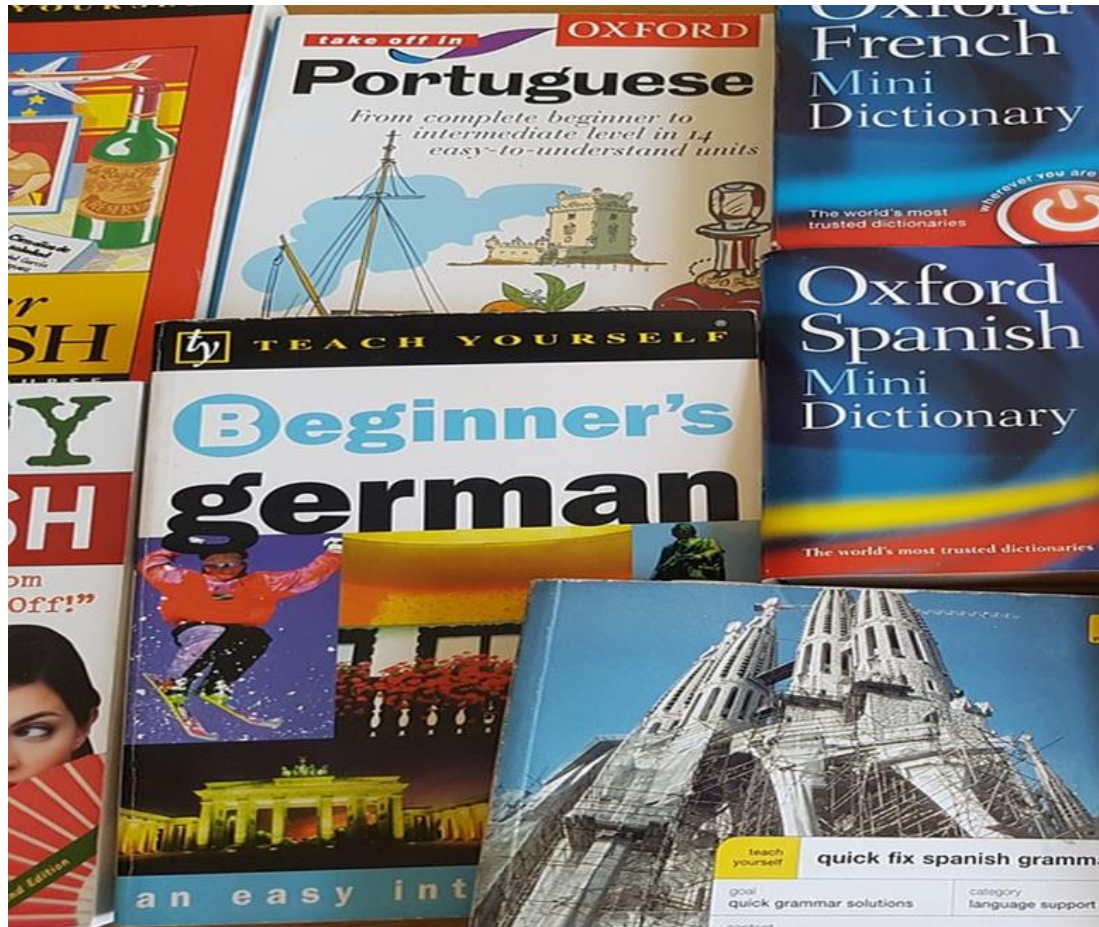
- You have completed your basic internship already?
 - Upload your report in TUconnect under „Praktikum Online“ (see also next slide)
- You have not yet completed your basic internship?
 - Put in a request for deferment (e.g. illness, rejection of application or other reasons) in TUconnect under „Praktikum Online“
 - „Fachpraxisunterricht“ or vocational training might get recognized – hand in your original documents to the SERVICEteam
- **Deadline: November 1st, 2025**
- If your request for deferment has been accepted, you need to complete the basic internship by the end your fourth semester.



„Praktikum Online“

- „Praktikum Online“ can be found in **TUconnect**: <https://connect.tu-braunschweig.de>
- You need to log on with your *y-Nummer* and password in order to register your internship and to upload your documents and reports OR to request a deferment.

The screenshot shows the TU Braunschweig TUconnect portal. The top navigation bar includes the university logo, a search bar, and user icons. Below this, a red navigation bar contains links for 'Home', 'My Studies' (highlighted with a green circle), 'Studies offered', 'Organisation', and 'Service'. The 'My Studies' section lists several options: 'Planner of studies with Module plan', 'Schedule', 'Registered exams and courses', 'My achievements', 'Student Self-Service', 'Upload written exams', and 'Praktikum Online' (highlighted with a green circle). The 'Praktikum Online' link is accompanied by the text 'Zugriff nur aus dem TU-Netz oder via VPN möglich ((https://vpngate.tu-bs.de/))'.



German language courses

Regulations

German language proficiency level:

- Enrolment: CEFR level A2 or higher
- End of third semester: TestDaf TDN 3 (CEFR level B 2.2)
→ Certificate needs to be handed in by March 31st

Courses at university's Language Center

- Regular courses during lecture period:

Deutsch B1.1 (4 CP)

Deutsch B1.2 (4 CP)

Deutsch B2.1 (4 CP)

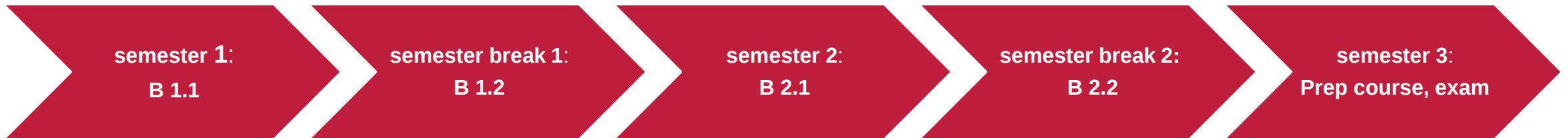
Deutsch B2.2 (4 CP)

Test-Daf Preparation course

- Compact courses during lecture-free period

German courses

- You should start with your German courses right away.



- As SEPP student, your German language class registration will get prioritised. Please watch out for information on deadlines etc..
- Course Coordinator German for SEPP and CSE at the Language Center: Friederike Weidauer (f.weidauer[at]tu-braunschweig.de)



Also good to know...

Student House „Masch.Bau“ & Student Council

The **student house Masch.Bau** offers 78 modern study spaces and common rooms for students of all faculties to study and work together. A total of 16 study rooms for up to four to six people each are available on three floors as well as a room with individual workplaces and a family room. A large conference room and a roof terrace are also located in the building.

The modern offices of the **student council** are located on the ground floor, as well as the "Klappe" where you can receive old examination papers. Students will be granted access to the building for the duration of their reservation with their student ID "TUcard". Students of the Faculty of Mechanical Engineering have a pre-booking right. The building is open 24/7.

- Langer Kamp 19 D, 38106 Braunschweig
- Booking system:
<https://www.tu-braunschweig.de/fmb/studierendenhaus/reservierung>
- [Further information](#)



Online Q & A: Examinations

Examination registration period: Dec 15th, 2025 – Jan 15th, 2026

On November 28th we will e-mail a **presentation** covering exam regulations, key dates, registration & de-registration procedures and more, to prepare for the...

...Live Online Q & A Session:

Have questions? Join us on December 5th, 2025 at 12 pm at this BigBlueButton platform: <https://webconf.tu-bs.de/mar-73f-2wn>



Career Service

Was bietet der Career Service?

Fachbereichsübergreifende Servicestelle der TU Braunschweig, DIE Schnittstelle zwischen Studierenden jeden Studienfortschritts, Promovierenden und Absolvent*innen sowie Arbeitgebern

Online:

- Ressourcen Center mit Tipps & Tricks rund um Karriereplanung inklusive Checklisten
- Podcast: All lost in the supermarket – Gespräche mit TU Alumni zum Arbeitsmarkt jetzt und in der Zukunft
- Link Tipps



tu-braunschweig.de/career

Einzelberatung

Unterstützung im Bewerbungsprozess

Berufsbezogener Interessens- und Kompetenzabgleich

Praxiskontaktvermittlung

Semesterprogramm

Workshops

Berufsfeldvorstellung

Exkursionen

Stellenticket und Jobbico

Absolventenstellen, Praktika, Werkstudentenstellen & Abschlussarbeiten

Aushilfstätigkeiten, Nebenjobs



Servicestelle Alumni & Career | Kurzvorstellung Career Service

International Career Service

Study in Braunschweig – start your career in the region!

- **Workshops, Company Visits & Networking Events** with Companies from the Region to prepare you for your career start
- **Personal Advisory Sessions** on academic success and career entry in the region
- **German Courses for the Workplace**

Contact:

international-career@tu-braunschweig.de



International Career Service

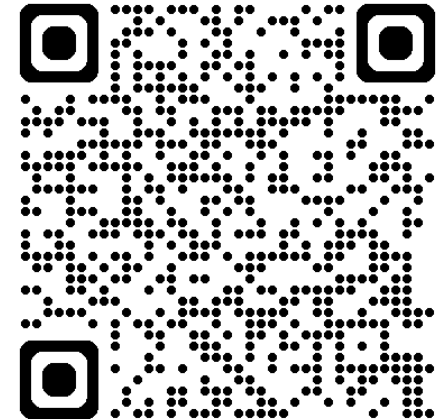
Finding a part-time job: Tips for international students at the Faculty of Mechanical Engineering

05. November 2025 | 04.00 – 05.00 pm
Großer Seminarraum, LENA Gebäude

[Register now!](#)

Further Events:

www.tu-braunschweig.de/international-career-service



Studying abroad – Information events International House

WEGE INS AUSLAND & STUDIEREN IN EUROPA – Information events offered by the International House.

- The International House offers information events about the many options to study abroad.
- Every first Wednesday of the month (please check for any changes on the respective website)

Further information: <https://www.tu-braunschweig.de/international-house/news-and-events>



Welcome events and programmes

Welcome week – International House

- For all international students who are new to Braunschweig
- Information events, open office hours, welcome reception, welcome events such as pub crawls etc.
- Please check the website for more information about the programme: <https://www.tu-braunschweig.de/en/welcome-programme>

Instagram Broadcast Channel for International Students at TU Braunschweig:

<https://www.instagram.com/channel/AbbVZEJXO-a85RTF>

inTU

- inTU: For German and international first semester students
- Welcome event and Kick-off: Nov 6th, 6.30 pm, location: PK 11.1
- More information and registration: <https://www.tu-braunschweig.de/intu>

Welcome events and programmes

First semester welcome – Oct 20th, 9 am – Braunschweig Stadium

- For all freshmen

Information Fair “Studium ist mehr...” – Oct 20th, 10.30 am – 12.30 pm – University Square

- Service institutions, faculties, and student initiatives present themselves

Studium Generale – Oct 21st, 10 am – 5 pm

- Attend interesting lectures across all professional fields

Last but not least...



**Wishing you all the best for your start at TU Braunschweig
and the best of luck and success in your studies.**

Faculty's Office - Team