



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



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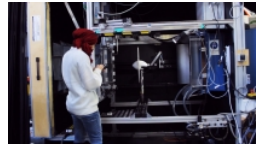
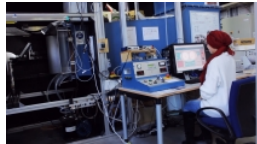
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Bachelor's degree



Energy Systems and Renewable Energies

Technische Hochschule Ingolstadt • Ingolstadt



Overview

Degree	Bachelor of Engineering
Teaching language	<ul style="list-style-type: none">English
Languages	The study programme is offered completely in English.
Programme duration	7 semesters
Beginning	Winter semester
Application deadline	<p>1. Apply via uni-assist from as soon as possible until 15 June at the latest (VPD).</p> <p>(If you obtained your higher secondary school certificate outside of Germany, uni-assist has to verify your eligibility to study in Germany and to convert school grades to the German grade system. You will have to submit all required documents to uni-assist online. The process takes four to six weeks.)</p> <p>2. hochschulstart.de: from 2 May until 15 July</p> <p>You will have to register online at hochschulstart.de to receive two numbers (BID and BAN) which you will have to enter as soon as you select one of the study courses in the application portal of the THI.</p> <p>3. PRIMUSS – THI application portal from 2 May until 15 July</p> <p>You will have to apply online at the PRIMUSS university application portal. In case of admission, you will have to send all required documents by post later on.</p> <p>Please note: The application deadlines might change. Please check the THI website to get up-to-date information regarding the application periods.</p>
Tuition fees per semester in EUR	500 EUR
Additional information on tuition fees	<p>This is a service fee payable by all students from third countries (with a citizenship outside the EU and the European Economic Area).</p> <p>With this fee, we significantly expand our services for international students.</p>

No service fees are charged for citizens of an EU member state and/or the European Economic Area or for students who have obtained their university entrance qualification in the German education system.

Joint degree / double degree programme No

Description/content

Limiting climate change is one of the biggest worldwide challenges of the 21st century. Implementing smart, integrated energy solutions and developing new and clean technologies helps meeting this key objective.

Therefore, there is a need for engineers specialised in energy systems and renewable energies and the integration of these technologies in the energy system.

The Bachelor's programme in Energy Systems and Renewable Energies meets these demands. This Bachelor's is fully taught in English, and it welcomes both German and international students.

Main contents:

- Specialised contents in renewable energies with high practical orientation
- Science Fundamentals like Mathematics, Thermodynamics, Mechanics, Fluid-Mechanics, Electrical Engineering and Computer Science
- Fundamentals of Mechanical Engineering: Mechanical Design, CAD, Material Science, Product Development
- Energy Generation: Solar Energy, Wind Energy, Hydro Energy, Biomass, Geothermal Energy
- Energy Systems: Smart Cities, Industry Supply Systems, Smart Buildings, Energy Markets, Sector Coupling
- Special Components in Energy Systems: Combined Heat and Power Plants, Heat Pumps, Batteries, Fuel Cells
- New Energy Carriers and New Concepts for Mobility: E-Mobility, Biomethane, Hydrogen, Power to Gas, Power to Heat

This innovative contents will allow students to understand complex energy systems in an international context. Specialised software is used in order to simulate and better understand the contents of the different courses. This is the backbone needed for solving the demanding challenges of future energy systems.

At the same time, the students acquire the ability to carry out economic assessments of energy supply concepts in order to prepare investment decisions. These economic analyses together with the knowledge of entrepreneurship and sustainability enable them to take on responsible positions in companies.

Graduates of the course are prepared for specialist and managerial tasks in the following areas:

- Sustainable energy generation and distribution
- Development, production and operation of energy technology plants and energy systems
- Planning of energy systems and energy consulting

Current information

Technische Hochschule Ingolstadt does not cooperate with recruitment agencies. Applicants will have to apply on their own. Apart from the uni-assist fee, there is no application fee.

Course Details

Course organisation

The standard period of study for the Energy Systems and Renewable Energy Bachelor's programme is seven semesters. This Bachelor's degree is a full-time study programme.

During the first and second semesters, fundamentals in engineering and energy systems are taught.

During the third and fourth semesters, students attend more advanced and interdisciplinary lectures.

Industry internships are scheduled for the fifth semester.

During the sixth and seventh semesters, students deepen their knowledge in energy systems and technology. In addition, students can expand their skills by choosing from a variety of electives and different topics of a team project and their Bachelor's thesis.

[» PDF Download](#)

A Diploma supplement will be issued	Yes
International elements	<ul style="list-style-type: none">• International guest lecturers• Projects with partners in Germany and abroad• Specialist literature in other languages• International comparisons and thematic reference to the international context
Integrated internships	<p>The industry internship in the fifth semester lasts 20 weeks (five months).</p> <p>Furthermore, the study programme requires a preparatory internship of at least eight weeks, which has to be completed before the start of the fourth semester (during semester breaks or before the start of studies). The preparatory internship is not part of the admission requirements.</p> <p>It is also common and recommended to write the Bachelor's thesis within a company as an alternative to writing it within the university.</p>
Course-specific, integrated German language courses	No
Course-specific, integrated English language courses	No

Costs / Funding

Tuition fees per semester in EUR	500 EUR
Additional information on tuition fees	<p>This is a service fee payable by all students from third countries (with a citizenship outside the EU and the European Economic Area).</p> <p>With this fee, we significantly expand our services for international students.</p> <p>No service fees are charged for citizens of an EU member state and/or the European Economic Area or for students who have obtained their university entrance qualification in the German education system.</p>
Semester contribution	All students will have to pay a student services fee of 72 EUR per semester.
Costs of living	Student organisations estimate that costs of living are approx. 950 EUR or more per month, depending on individual needs and expectations. Mandatory health insurance in Germany will cost a student around 110 EUR per month.

Funding opportunities within the university

Yes

Description of the above-mentioned funding opportunities within the university

There are different scholarships available to enrolled students, such as the Deutschlandstipendium. All students will have to look and apply for specific scholarships themselves! Most scholarship programmes are based on performance (grades, voluntary work, etc.) The economic situation of applicants is usually not taken into consideration. A certain level of German language skills (at least B2) is required for many scholarships.

The International Office also offers scholarships. Enrolled international students will be notified of the call once a year via the communication channels of the university.

Requirements / Registration

Academic admission requirements

Requirements include a valid university entrance qualification ("Hochschulzugangsberechtigung"). This is a secondary school certificate that entitles you to study at a German university.

For applicants who obtained their higher secondary school certificate outside of Germany, uni-assist has to verify their eligibility to study in Germany and to convert school grades to the German grade system. Applicants will have to submit all required documents online to uni-assist prior to their application at THI. The process takes four to six weeks. (VPD)

More information on the application process can be found [here](#).

Language requirements

We DO NOT require a formal proof or documentation of English language skills (e.g. TOEFL, IELTS). Note that the study programme is offered completely in English, and that is why sufficient knowledge of the English language is strongly recommended.

There is no requirement to formally prove German language skills for your admission. However, a German course is highly recommended for better integration into everyday life. Furthermore, German skills will greatly increase your chances in finding a student job and or an internship at a German company.

Application deadline

1. Apply via [uni-assist](#) from as soon as possible until 15 June at the latest (VPD).

(If you obtained your higher secondary school certificate outside of Germany, uni-assist has to verify your eligibility to study in Germany and to convert school grades to the German grade system. You will have to submit all required documents to uni-assist online. The process takes four to six weeks.)

2. [hochschulstart.de](#): from 2 May until 15 July

You will have to register online at [hochschulstart.de](#) to receive two numbers (BID and BAN) which you will have to enter as soon as you select one of the study courses in the application portal of the THI.

3. [PRIMUSS – THI application portal](#) from 2 May until 15 July

You will have to apply online at the PRIMUSS university application portal. In case of admission, you will have to send all required documents by post later on.

Please note: The application deadlines might change. Please check [the THI website](#) to get up-to-date information regarding the application periods.

Submit application to

[Uni-assist](#): online application for VPD document

hochschulstart.de: online registration only to get BID and BAN numbers

PRIMUSS: THI application portal for online application submission

[More information on application can be found here](#)

Services

Possibility of finding part-time employment

In addition to open internship positions on the university platform, students should consider research and teaching assistant positions at THI.

Furthermore, the International Office offers workshops in English to prepare international students who seek internship opportunities.

Accommodation

Technische Hochschule Ingolstadt does not run any student residence halls / dorms. You will have to start looking for accommodation on your own as soon as possible. Between 500 and 700 EUR per month should be budgeted for accommodation.

The [FAQs](#) will help you in finding accommodation in Ingolstadt or Neuburg.

Career advisory service

The Career Service supports students with workshops and counselling, e.g. workshops to prepare for the German job market.

Support for international students and doctoral candidates

- Welcome event
- Buddy programme
- Tutors
- Visa matters

General services and support for international students and doctoral candidates

- Online info session for admitted degree-seekers
- support with residence permit
- German courses at the N.I.C.E. language centre (Network & International Culture Exchange)
- service point and individual appointments

Supervisor-student ratio

There are usually groups of about 50 students in each class.



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Jihade Kamouss
Renewable Energy student

I have always been passionate about environmentally friendly sectors. I strongly believe that the renewable energy sector is an extremely promising field to be working in. It is an emerging industry nowadays. Therefore, there is a great need for energy experts who deal with global climate change issues and the progressive scarcity of resources. For me, it is very fascinating that I will have the chance to shape the future.



THI image film

Student life at THI

» more:
<https://youtu.be/aWCHe9TgL2g>

Technische Hochschule Ingolstadt



THI campus

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Technische Hochschule Ingolstadt is an institution that specialises in business and technology and is characterised by innovative study concepts and modern facilities. We are currently training close to 8,000 students in more than 70 study programmes in engineering, computer science, business, life sciences and sustainability.

Our students will graduate as sought-after specialists and managers. An extremely dynamic and successful region with a distinctly strong economic structure provides for excellent framework conditions. The relatively small student body guarantees individual guidance, a familial atmosphere, and close cooperation between students and professors.

One of the core features of studying at our university is its orientation towards practical application. Internships and projects as well as a

continuous cooperation with regional companies are basic components of every study programme.

The Ingolstadt campus was completed in 1999, and a new tract of buildings opened in 2014. In 2021, the Neuburg campus opened its doors with its Faculty of Sustainable Infrastructure.

Modern equipment and facilities create an atmosphere that adds to students' success and enjoyment. Technische Hochschule Ingolstadt is proud of its commitment to offer the highest possible level of quality in research and education. It is possible to explore Technische Hochschule Ingolstadt by visiting [the interactive 360° THI campus tour](#).



University location

The campus is only a short walk from Ingolstadt's appealing old city. The view from the lecture halls is of a castle and other medieval buildings. Ingolstadt lies in the centre of Bavaria, one of the most prosperous German federal states, and it is only an hour by car from the metropolitan areas of Munich and Nuremberg. The opportunities to take part in leisure activities in the area – which is close to the Alps as well as to the beautiful Altmühl valley – are unlimited. With the headquarters of Audi (the international automotive company) and a large number of innovative corporations in the city, Ingolstadt is proud to be one of the strongest economic regions in Germany. Opportunities to participate in sports activities are provided by the university as well as by various amateur and competitive sports clubs. Bavarian charm and the Bavarian way of life – including summer evenings in beer gardens and the diverse cultural events on offer – make daily life in Ingolstadt particularly attractive for students.

Contact

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 Course website: <https://www.thi.de/en/mechanical-engineering/degree-programmes/energy-systems-and-renewable-energies-beng>

 https://twitter.com/th_ingolstadt

 https://www.instagram.com/thingolstadt_official/

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Disclaimer

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