



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



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Master's degree



Renewable Energy and E-Mobility (REEM)

Stralsund University of Applied Sciences • Stralsund



Overview

Degree	Master of Engineering (MEng)
Teaching language	<ul style="list-style-type: none">English
Languages	This Master's programme is offered entirely in English . The Master's thesis is to be written in English.
Full-time / part-time	<ul style="list-style-type: none">full-time
Programme duration	3 semesters, 4 semesters
Beginning	Winter and summer semester
Application deadline	Information on current application deadlines can be found here . Application procedure for international students
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	Yes
Description/content	<p>Rethinking the area of energy supply and use is indispensable in times of climate change, finite natural resources and instability of the fossil fuel supply. Particular attention is given to the use of renewable energy sources such as solar radiation in PV and solar thermal systems, biomass, wind and hydropower as well as the development of electric vehicles. The creation of electric cars can be a major step towards avoiding the consequences of climate change and at the same time towards making Germany's automotive industry more competitive in the future. The new study programme is designed to address these future topics and to help to meet the growing need for engineers. There is no equivalent offer in the north of Germany.</p>

Our long-term international experience with a series of English lectures as a special offer for the

Master of Electrical Engineering with a focus on Renewable Energies as well as the postgraduate programme in "Renewable Energy and Hydrogen Technology" have been incorporated into this Master's programme. Synergies can be used with these offers. Our faculty also has a number of cooperative relations with foreign universities, which students can take advantage of by choosing to pursue the double-degree option in this Master's programme.

The study programme is aimed at students who have a Bachelor's degree in electrical engineering, mechanical engineering and related degrees, and physics.

Course Details

Course organisation

The Master's programme is offered in a three and four-semester variant because foreign students often come to us with a 180 ECTS Bachelor's degree. The four-semester variant includes an additional internship semester.

The student can choose from a number of optional modules in the fields of renewable energies or e-mobility. Lectures are held over the course of two semesters. The third semester or fourth semester is used to work on the Master's thesis. Compulsory modules are based on mathematical and technical principles as well as interdisciplinary qualifications, such as energy and environmental management or quality management in the automotive industry. Application-specific expertise is conveyed in compulsory subject areas on various topics of the two focus areas.

The curriculum is structured as follows:

1. **Mathematical-scientific basics**
Modelling of Physical Systems, System Theory
2. **Specialised technical bases of renewable energy technology**
Regenerative Energy Systems, Methods of Power Engineering, Power Electronics
3. **Application-oriented basic knowledge**
(elective modules, a minimum of four or five modules have to be chosen)
Current Topics of Renewable Energy Use, Solar Systems, Wind Power Plants, Hydrogen Technology, Project Renewable Energy, Sustainable Non-Fossil Mobility, Fuel Cell Systems, Control of Electrical Drives, Advanced Power Electronics, Project Seminar E-Mobility, Vehicle Management Systems, Vehicle Simulation & Test Drive
4. **Interdisciplinary qualifications (1 from 2)**
Quality in Automotive Industry, Environmental Management
5. **Internship semester or project work and three free elective modules**
(only available as part of the four-semester variant)
6. **Master's thesis**

[» PDF Download](#)

A Diploma supplement will be issued

Yes

Integrated internships

The four-semester Master's programme includes an additional internship semester of 21 weeks or a major project work and additional elective courses at the university.

Our online job exchange and the programme advisers support and assist students during the process of finding an internship.

Special promotion / funding of the programme

- DAAD
- ERASMUS+
- Other (e.g. state level)

Name of DAAD funding programme

PROMOS, Other

Course-specific, integrated German language courses	Yes
Course-specific, integrated English language courses	No

Costs / Funding

Tuition fees per semester in EUR	None
Semester contribution	Full-time students: 113 EUR for the first semester and 96 EUR for all subsequent semesters Erasmus+ students: 93 EUR per semester
Costs of living	Non-EU: As of 1 January 2023, foreign students and applicants from outside the EU must present a so-called "proof of financing" corresponding to 934 EUR per month (11,208 EUR per year). The actual cost of living in Stralsund amounts to 550-700 EUR per month, depending on the type of lifestyle.
Funding opportunities within the university	Yes
Description of the above-mentioned funding opportunities within the university	The International Office can advise you on funding opportunities.

Requirements / Registration

Academic admission requirements	<p>General requirements:</p> <p>Completed first degree in electrical engineering, energy technology, renewable energies, mechanical engineering, physics or related degrees</p> <p>Proof of knowledge in the following fields (e.g., official course description as provided by the university):</p> <ul style="list-style-type: none"> • Measurement technology of at least four hours per week for one semester or 5 ECTS points • Control engineering amounting to at least four hours per week for one semester or 5 ECTS points • Fundamentals of electrical engineering amounting to at least four hours per week for one semester or 5 ECTS points • Electrical machines amounting to at least two hours per week for one semester or 3 ECTS points and • The usual mathematical foundations underlying these fields <p>At least three of the four modules demonstrating the respective subject knowledge must also be completed with a grade of at least 2.7 or, in the case of another grading system, with a comparable grade (70% of the applied grading scale).</p> <p>Proof of English proficiency (level B2 according to the European Framework of Reference for Languages)</p>
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An average mark of the Bachelor's degree of at least 1.8

An average mark of 1.9 to 2.3 is subject to a special individual assessment. For this purpose, a letter of motivation in German or English (approx. 500 words) and, if applicable, further proof of the subject-specific and programme-specific qualification have to be submitted.

Applicants with an average mark of 2.4 or lower will be rejected!

Further requirements depending on the duration of the study:

Three-semester programme:

- An undergraduate degree with at least 210 ECTS points
- Applicants must have completed a relevant internship of at least 12 weeks or professional experience. (Internships during the undergraduate degree programme will be credited.) If no internship has been completed, this must be provided before registering for the Master's thesis.

Four-semester programme with internship:

- An undergraduate degree with at least 180 ECTS points

Four-semester programme without internship

- An undergraduate degree with at least 180 ECTS points
- Applicants must have completed an internship of at least 12 weeks. (Internships during undergraduate degree will be credited.) If no internship has been completed, this must be provided before registering for the Master's thesis.

The Admission Commission considers the provided expertise and decides on admission.

More information about requirements can be found [here](#).

Language requirements

Proof of [English proficiency](#) (level B2 according to the European Framework of Reference for Languages)

The required language skills level can be proven by one of the following:

- TOEFL: 79 points (iBT), 213 points (CBT) or 550 points (PBT)
- IELTS (International English Language Testing System): 6.0 points
- Cambridge First Certificate
- Equivalent certificates which correspond at least with the level B2 according to CEFR
- A successfully completed course of study that was taught fully or partly in English
- A secondary school leaving certificate from an international high school
- A 10-month stay (or longer) in a country with English as official language (with appropriate documentary proof)

Applicants from countries whose official language is English are exempt from this requirement as long as they obtained their university entrance qualification in the English language as well.

Application deadline

Information on current application deadlines can be found [here](#).

[Application procedure](#) for international students

Submit application to

Foreign applicants and applicants with a foreign university entrance qualification:
Please apply via [uni-assist](#).

Please send printed documents by postal mail to:
uni-assist e.V.
11507 Berlin
Germany

Services

Possibility of finding part-time employment

The Master's course is a full-time programme that requires intensive study. Due to this workload, working in addition to studying is not recommended. However, some jobs are available, for example, as student assistants.

Accommodation

As a campus university, Stralsund University of Applied Sciences offers one of the most charming accommodation options in **Holzhausen**, a small village with a Scandinavian look and feel. The accommodations are located on campus – just a few steps from the "Mensa" (cafeteria) and the schools.

Whether in student halls of residence, a shared flat or your first flat on your own, this decision has to be made by you and should be made according to your own desires and available funds. Stralsund offers exceptionally good conditions and is not affected by overly expensive rental prices and a highly competitive property market like other study locations and cities.

The International Office will help you find accommodation.

[Find out more.](#)

Support for international students and doctoral candidates

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

Supervisor-student ratio

Excellent



Faculty of Electrical Engineering and Computer Science

The video gives insight in the faculty of Electrical Engineering and Computer Science at the University of Applied Sciences Stralsund.

» more:

<https://www.youtube.com/watch?v=dmQyBO5yET4&feature=youtu.be>

— Stralsund University of Applied Sciences —



The University of Applied Sciences Stralsund (HOST) is a young and innovative campus university. With its modern facilities, an excellent supervision ratio and its top location directly on the Baltic Sea, the University of Applied Sciences Stralsund offers optimal conditions for study, research and living.

The campus university, located directly on the Baltic Sea, offers prospective students a choice of 26 accredited Bachelor's and Master's programmes and a diploma supplementary course in German or English. As a relatively young university, which was only founded in 1991, Stralsund has many modernly equipped laboratories, lecture halls and seminar rooms, which guarantee an optimal learning environment. Moreover, the university offers on-campus living for up to 270 students within sight of the Baltic Sea.

At present, around 2,400 students from 60 countries study at the three schools of Business Studies, Mechanical Engineering and Electrical Engineering & Computer Science. The range of courses include both classic subjects such as Mechanical Engineering, Electrical Engineering and Business Administration as well as new and innovative courses such as IT Security and Mobile Systems, Motorsport Engineering and Tourism Development Strategies. Nearly all courses can also be taken in the form of a dual study programme with a highly practical component. The university cooperates with numerous companies for this purpose.

Because studying is important, but it is not everything, there are various leisure activities on campus. For example, the student project teams Baltic Racing, ThaiGer-H2-Racing and MariTeam Racing develop racing cars and motorcycles at the highest level. Recently, the HOST even celebrated three European Championship titles in a row! In addition, the campus has its own gym, weight room and sports field with a wide range of sports activities, such as beach volleyball, sailing and diving.

Although the HOST is a relatively small university in north-eastern Germany, it has a broad international network. Within the framework of the Erasmus+ programme, the university has 72 partner universities throughout Europe. Those who feel that this is not enough can also spend a semester abroad at one of the many partner universities worldwide in locations such as Oman, Australia, Brazil, Argentina and many other countries.



📍 University location

The old Hanseatic town of Stralsund, founded in 1234, is situated in the north-east of the federal state of Mecklenburg-Western Pomerania, and it has been a university town since 1991. Stralsund's 800 historical buildings, which are classified as historical monuments and were built in different historical eras, have witnessed 770 years of the town's history, particularly the Hanseatic period. The city centres of Stralsund and Wismar were recognised by UNESCO as part of the World Heritage Programme in 2002.

Contact

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🌐 Course website: <https://www.hochschule-stralsund.de/en/host/schools/electrical-engineering-and-computer-science/range-of-courses/renewable-energy-and-e-mobility-master-reemm-engl/>

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International Programmes in Germany - Database

www.daad.de/international-programmes

www.daad.de/sommerkurse

Editor

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German Academic Exchange Service

Section K23 – Information on Studying in Germany

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GATE-Germany

Consortium for International Higher Education Marketing

www.gate-germany.de

Disclaimer

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