Facts and figures

Start: Winter semester
Duration: 4 semesters
Degree: Master of Science
Language: English
Admission restricted
Fee-based

Application and enrolment

Admission requirements

General admission requirements:
www.uol.de/stud/214en

Language skills:
English native speaker or level B2

Applications

Application deadline: 15 October (DAAD) or 15 January

German university degree:
Online application
www.uol.de/studium/bewerben/master

EU or international applicants:
www.uol.de/en/ppre/application

Contact

For questions about the subject/degree programme

Academic Counselling for Sustainable Renewable Energy Technologies
www.uol.de/en/subject-specific-student-advice
ppre@uol.de

For questions about your studies

Study and Career Counselling Service
www.uol.de/zskb

Basic questions about application and enrolment

Student InfoLine
Phone +49 441 798 - 2728
study@uol.de

Visitor address
Student Service Centre – SSC
Haarentor campus, building A12
26129 Oldenburg
www.uol.de/studium/service-beratung

Further information

Sustainable Renewable Energy Technologies website
www.uol.de/en/ppre
www.instagram.com/ppre_uol/
www.linkedin.com/company/postgraduate-programmes-renewable-energy

Degree programmes at the University of Oldenburg
www.uol.de/en/students/degree-programmes

Financing your studies
www.uol.de/en/students/fees/financing-your-studies

Optional period abroad
www.uol.de/en/going-abroad

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Carl von Ossietzky
Universität
Oldenburg

Sustainable Renewable Energy Technologies

Master's degree

Sustainable Renewable Energy Technologies (M. Sc.)

The Master's degree in Sustainable Renewable Energy Technologies (SuRE) - previously known as the Postgraduate Programme Renewable Energy (PPRE) - has been offered by the Institute of Physics of the University of Oldenburg since 1987. More than 650 participants from over 90 countries (mainly from Africa, Asia, South and Central America, but also from Germany and other industrialized countries) have successfully completed this programme.

SuRE has been designed to teach students the fundamentals and applications of using renewable energy sources. Focus areas include the following: Teaching of physical basics of renewable energy systems, technical implementation and economic conditions for the use of renewable energies, practical testing of components of decentralised energy supply systems, analysis and planning of actual decentralised energy supply projects (case studies) as well as contacts with companies and institutions in the field of the use of renewable energy sources.

Career opportunities

The career prospects are very good, especially in Germany, but also worldwide. The market for this type of qualification continues to grow. With a Master's, you can work in a variety of fields:

– Engineering and planning offices
– Research facilities
– International organisations and projects
– Freelance

Due to the numerous international contacts and relationships resulting from the program, but especially because of the active alumni network, a kind of worldwide internship and job exchange in the field of renewable energy has developed, from which not only the students benefit but increasingly the graduates of the programme as well.

Structure and contents

SEMESTER 1

BASIC MODULES 30 CP

Compulsory modules

Fundamentals of Renewable Energy / 6 CP
Renewable Energy Laboratories / 6 CP
Energy Resources and Systems / 6 CP
Solar Energy / 6 CP
Wind Energy and Storage / 6 CP

SEMESTER 2

SPECIALISATION 30 CP

Elective module of a focus area / 12 CP

Solar Energy
Wind Energy
System Integration of Renewable Energy

Compulsory modules / 18 CP

Sustainability of Renewable Energy / 6 CP
Renewable Energy Systems Laboratory and Modelling / 6 CP
Advanced Topics in Renewable Energy / 6 CP

SEMESTER 3

ADVANCED MODULES 30 CP

Compulsory modules

Resilient Energy Systems / 6 CP
Complementary Topics and Transferable Skills / 6 CP
Selected Renewable Energy Technologies / 6 CP
Internship / 6 CP
Renewable Energy Project / 6 CP

SEM. 4

COMPULSORY 30 CP

Master's thesis module

MASTER OF SCIENCE 120 CP

Specialisation

In the second semester, in addition to a number of compulsory and elective modules, students must choose one of the following three specialisations and take modules with a total of 12 CP:

– Solar Energy with the modules Photovoltaic Physics (6 CP), Photovoltaic Systems (6 CP) and Solar Energy Meteorology (6 CP)
– Wind Energy with the modules Computational Fluid Dynamics (6 CP), Design of Wind Energy Systems (6 CP), Wind Resources and their Applications (6 CP) and Control of Wind Turbines and Wind Farms (6 CP)
– System Integration of Renewable Energy with the modules Future Power Supply Systems (6 CP) and Smart Grid Management (6 CP)

For information on the content of the programme, see the respective module descriptions.

Language skills

The programme is taught exclusively in English. Evidence of B2 level proficiency of English must be provided.