

FREIBURG »GREEN CITY«

Freiburg has gained its name and reputation as "Green City" thanks to its high environmental standards, innovative research and development, and general attitude toward

the environment. With extensive use of solar energy and other renewable sources, the city attracts researchers and environmental organizations from around the world. And Frei-

Freiburg with »Münster«

burg is not only green in its policies and politics: no other city of comparable size (220,000 inhabitants) has such diversity of landscapes, ranging from the mountains of the Black Forest to the Mediterranean vegetation of the Rhine valley. One of Germany's most beautiful cities, Freiburg is a traditional, yet also youthful and dynamic University town. Its location next to the French and Swiss border makes it a great base for exploring Europe.

FACULTY

Faculty of Environment and Natural Resources

In accordance with the interdisciplinary and international focus of the programme, the team of lecturers comprises professors from the Faculty of Environment and Natural

Resources and the Faculty of Engineering, as well as internationally experienced representatives from across many different departments of the University of Freiburg and from external research institutes and partner Universities.



Transportation of energy by underground pipes

FACTS AND FIGURES

Duration: 4 semesters, 120 ECTS credits

Course start: October

Language of instruction: English

Application deadline: 15 May

Language prerequisites: TOEFL ibt 100, IELTS Band 7

Accredited by: ACQUIN

The programme's high and growing appeal to students worldwide (we receive over 450 applications from dozens of countries every year) can be taken as proof of the relevance of its underlying educational principles. Each year, a group of around 55 students is selected in a highly competitive procedure based on criteria of excellence and geographical representation.

CONTACT

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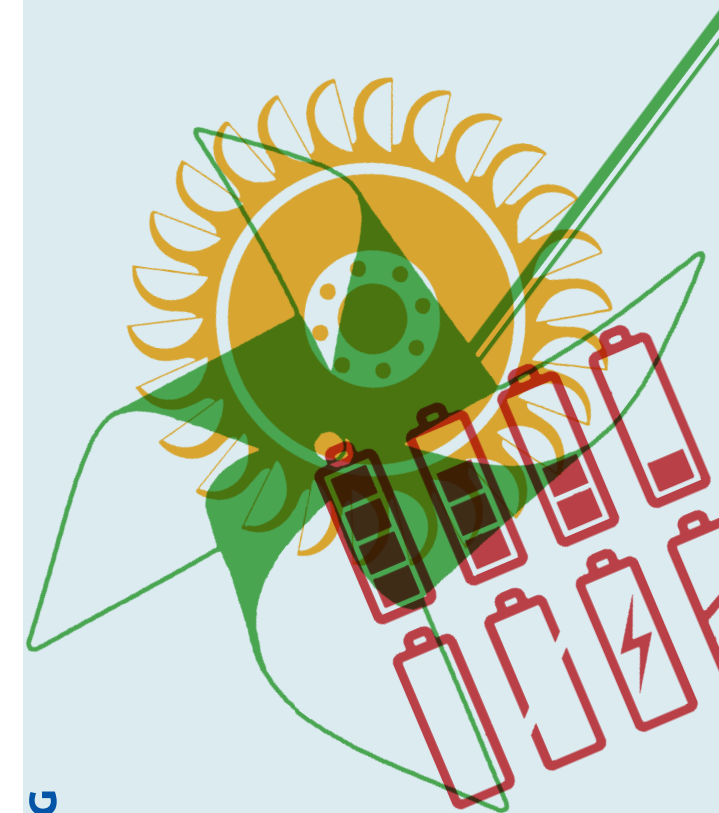
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m.sc. Programme Renewable Energy Engineering and Management (R.E.M.)



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ALBERT-LUDWIGS-UNIVERSITÄT FREIBURG
FAKULTÄT FÜR UMWELT UND NATÜRLICHE RESSOURCEN



SUSTAINABLE ENERGY SYSTEMS ENVIRONMENT NATURAL RESOURCES SOLAR ENERGY BIO & WIND ENERGY SMART SOLUTIONS

M.Sc. Renewable Energy Engineering and Management (REM)

Renewable energy sources will no doubt be one of the greatest issues our society will have to face in the future. With this Master programme, our aim is to provide international students with a context-sensitive, first-class training in the field of "Renewable Energy Engineering and Management". The M.Sc. REM programme is designed to bridge the current gap between technical aspects of renewable energy and its sustainable implementation at a societal level. To establish this connection, a **trans-disciplinary approach** is paramount. As an inter-faculty study programme hosted by both the Faculty of Environment and Natural Resources and the Faculty of Engineering, the REM programme stands out for its trans-disciplinary endeavor. Furthermore, its close collaboration with the renowned Fraunhofer Institute ensures a strong **connection between research and industry**.



Wind turbines in a rapeseed field in Germany

CURRICULUM

The REM programme is designed as a two-year (4-semester) full-time programme (120 ECTS). Teaching is mostly organized in three-week block modules, comprising core and elective modules as well as the option to specialize in three different fields: energy systems technology; energy conversion; environmental planning and management. On the one hand, students acquire skills and knowledge **to plan** projects and facilities for the utilization of renewable energy, and on the other hand, they learn how **to implement** them while taking into account economic, political and societal concerns.

TARGET GROUP



The programme is addressed to candidates with BSc in: **engineering** (electrical engineering, energy management, process engineering, microsystems technology, mechanical engineering or environmental engineering), **natural sciences** or **applied life sciences** (forest or environmental sciences). Applicants must have well-above-average grades in order to be eligible.



Excursion to a hotel using renewable energies (PV, solar thermal and wind energy)

CAREER PERSPECTIVES

Upon completion, graduates will be well prepared for careers and future employment in a variety of fields: renewable energy companies, power supply companies, investment companies specializing in financing environmental projects, as well as investment and development banks, planning and engineering bureaus, consultancies, public relations and information services (energy agencies, technology transfer institutions) and project management.

1st SEMESTER

- › Energy & Sustainable Development
- › Scientific Framework for REM
- › Natural Resources and Conversion Technologies
- › Climate & Energy Policy

2nd SEMESTER

- › Generation and Distribution of Energy Management I
- › Research Skills
- › Society and Economy
- › Wind Energy
- › Bioenergy I

3rd SEMESTER

- › Energy Systems Technology (Energy Systems Hardware and Control; Smart Grids; Energy Efficiency; Energy Informatics)
- › Energy Conversion (Photovoltaics 1 and 2; Low and High Temperature Solar Thermal Energy)
- › Environmental Planning and Management (Energy communities; Management 2; Landscape, Nature protection, Landuse conflicts; Bioenergy 2)

4th SEMESTER

- › MASTER THESIS

Internship

- = Core Modules
- = Elective Modules
- = Elective Tracks