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 Freiburg 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

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.

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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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.

Curriculum:

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 1
- Research Skills
- Society and Economy
- Wind Energy
- Bioenergy 1

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

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.

Sustainable Energy Systems Environment Natural Resources Solar Energy Bio & Wind Energy Smart Solutions