

SKILLS FOR THE RE INDUSTRY

The balanced mix of theoretical and practical courses, as well as the three- section structure including a six-month internship, provides the students not only with high level technical and scientific competences, but also with soft skills such as flexibility and adaptability to work in a multicultural environment, which are essential when working in an expanding and global market.

EUROPEAN DIMENSION

To ensure the European dimension of the Master programme, students have to study in at least two different countries.

PARTNERING UNIVERSITIES*

- Carl-von-Ossietsky Universität (Germany)
- Hanze UAS (The Netherlands)
- IST Lisbon (Portugal)
- Loughborough University (UK)
- MINES-ParisTech (France)
- National Technical University of Athens (Greece)
- Northumbria University (UK)
- Universidad de Zaragoza (Spain)
- Université de Perpignan (France)

*Partnering Universities in 2017-2018



**EUREC SOLAR THERMAL SPECIALISATION
REALLY PROVIDES
TOP-NOTCH GRADUATES
WITH EXCELLENT AND RELEVANT
EDUCATION IN CSP TECHNOLOGIES**



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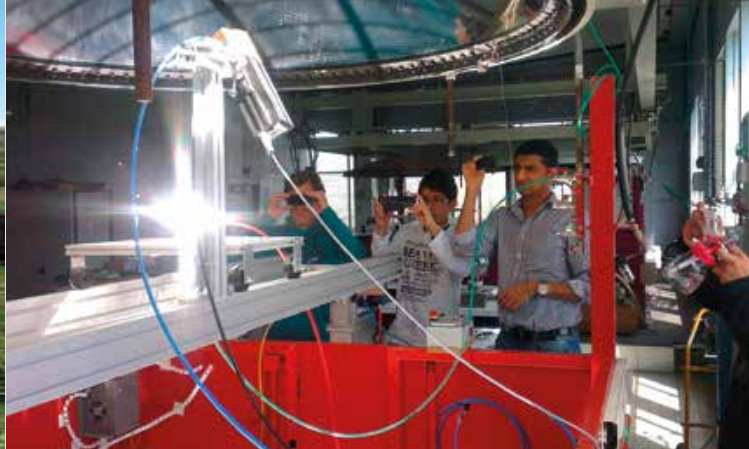
EUROPEAN
MASTER IN
RENEWABLE
ENERGY
Coordinated by EUREC

 **EUROPEAN MASTER
IN RENEWABLE ENERGY
SOLAR THERMAL SPECIALISATION**



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DEGREE

The degree title given to successful students at the end of the course is equivalent to “European MSc in Renewable Energy” in the language of the core University awarding it. Students also receive a Certificate of Equivalence from EUREC.

This document formally states that the different degrees given by core Universities are equivalent in value and content.

GENERAL INFORMATION

Solar Thermal specialization supervised by Perpignan University and teachers from PROMES (Process Materials and Solar Energy) Laboratory.

PROMES laboratory is located in the south of France Education takes place in the Solar Furnace building in Odeillo.

- **Multidisciplinary skills** : optics, thermal transfer, materials science, thermodynamics, energetics,...
- Unique skills in **system simulation** (work with industrial softwares and numerical tools dedicated to CSP design and simulation)
- Experience on **unique solar facilities**
- Solar Labs, Visits, etc...



COURSE STRUCTURE

THE SPECIALISATION SEMESTER IS DIVIDED INTO 5 MODULES OF 2 BLOCKS

Prerequisite: basics in thermal transfer, fluid mechanics and energetics

► Fundamentals

- Radiative heat transfer
- Combined heat and mass transfer

► Simulation and system optimization

- Solar concentrating systems and receivers
- Solar conversion and Thermo-economics

► Energy

- Solar collector's theory and technologies
- Solar Power Plants

► Materials

- Thermal storage
- Innovative materials for energy conversion

► Project, case study and innovation

- Project, case study
- Solar fuels



HOW TO APPLY

The minimum entry requirements are a BSc (or equivalent) of a high standard, in an Engineering, Mathematics or Physics subject OR equivalent work experience.

Candidates have to apply online, between January and June, for admission in September/October the same year.



CSP is not the only sector after ST specialisation :

Building • Process heat
Desalination • Solar Fuels

Please visit the EUREC Master website for detailed information:

www.master.eure