



POLYTECH<sup>®</sup>  
ANNECY-CHAMBERY

Photo : Yannick Perrin



# Energy and Solar Buildings

BOURGET-DU-LAC - France

A TWO-YEAR INTERNATIONAL PROGRAM • 18 STUDENTS PER YEAR • SINCE 2017

## OBJECTIVES OF THE MASTER

Develop know-how and skills useful to researchers and engineers who design new Nearly Zero Energy Buildings (NZEB), solar systems, innovative systems and energy distribution networks as part of a global sustainable development policy.

The Master's students:

- will gain specialized skills in Energy and enough additional skills in other domains to meet the requirements of a multidisciplinary building and solar energy projects;
- will become familiar with the requirements of a research or professional activities.



## Job opportunities

- Train senior operational staff in the field of solar energy for the building and industry sectors;
- To move towards a career of researcher while preparing the doctorate.



## Course content and skills developed

- Energy and solar buildings: Energy - Building science and Technology - Solar thermal and photovoltaic - Modelling and optimization - Research and technical Projects - Mathematics...
- Professional skills: Scientific communication - Structuration and funding of Research - Ethics (Plagiarism)...
- Transversal skills: Collaborative work - Project management - Innovation - Social responsibility - Language...



## Project and internship

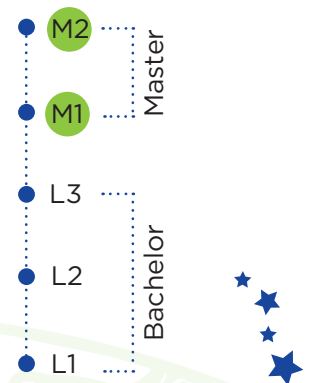
### From semesters S7 to S9:

- Academic learning: 65 ECTS / 90
- Course (1,5h per session)
- Tutorial (1,5h per session)
- Practical work (4h per session)
- 3 Projects: 25 ECTS / 90

### Semester S10:

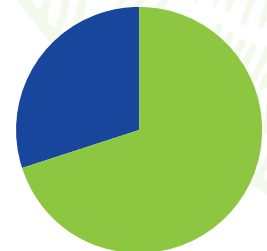
- Internship: 30 ECTS
- Master thesis (research) or Professional internship
- 4 months at least

## Level of education



## General prerequisites

- Bachelor's degree
- Energy (Heat transfer, Thermodynamics, Fluid dynamics, ...), Mathematics
- Good level of English (B2)



**70%**  
of foreign students





## How to apply

Candidates are selected based on:

- their English level,
- their motivation and
- their academic results (see prerequisites)

## APPLICATION PROCEDURE

**For information about the application procedure, please contact the International Office.**

**[www.univ-smb.fr/broaden-your-horizons](http://www.univ-smb.fr/broaden-your-horizons)**

**[www.univ-smb.fr/survival-kit](http://www.univ-smb.fr/survival-kit)**



## CONTACTS

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FRANCE

### For more details:

<https://www.polytech.univ-smb.fr/formation/master/m2-energy-solar-buildings.html>

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I am very interested in green energies, and the field of Nearly Zero Energy Buildings is absolutely fascinating! This programme is a great opportunity to deepen my knowledge and competencies, in an international but also professional context.

Keya. C (India)



### • University of Genova

On December 2016 the University of Genova (Unige) and Université Savoie Mont Blanc (USMB), have signed an agreement aimed at activating a joint curriculum of studies named European Master in Engineering for Energy and Sustainable Buildings (EMESB), delivering a double Master

degree in Energy and Solar Buildings (ESB at USMB) and Laurea Magistrale in Energy Engineering (En2 at Unige). Students admitted to the EMESB program will be enrolled and will attend classes in both Universities and they finally will be able to get the double degree in Italy and France.

This Master is certified and supported by the Franco-Italian University.

- EMESB students are admitted to apply to the Erasmus+ program related to the existing cooperation between Unige and USMB.
- National Solar Energy Institute (<http://www.ines-solaire.org/>)

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