

Master Energie solaire (Solar energy)



Niveau de
diplôme
BAC +5



ECTS
120 crédits



Durée
2 années, 4
semestres



Langues
d'enseignement
Anglais

Parcours proposés

- › Energy for solar buildings and cities (Energie pour bâtiments et villes solaires)
- › Solar energy, law, economics and management (Droit, économie et gestion pour énergie solaire)

Located on the Bourget-du-Lac Campus, close to INES (National Institute for Solar Energy) experimental facilities, you will participate in high quality education and multidisciplinary projects, stimulating your creativity and entrepreneurial skills.

Objectifs

The *Energy for Solar Building and Cities* program combines practice and theory centered on the fields of solar energy engineering, building physics and materials science, with an opening to computer science, architecture and urban planning, law, economics and sociology.

The training provides the knowledge on how to deploy the energy transition in the building sector, with a particular focus on solar energy. It provides technical tools for system sizing and management, and develops an in-depth understanding of the energy transition, including its relationship with public policies, economic and industrial transformations, business models, legal concepts and tools specific to the renewable energy sector, in particular solar energy.

The core training in *Solar Energy: Law Economics and Management* program, based on economics, management and law, provides knowledge on how to apply the main tools of economic analysis and develop an in-depth understanding of the energy transition, including its relationship with public policies, industrial transformations, business models, legal concepts and tools specific to the renewable energy sector, in particular solar energy.

Présentation



The Master program **SOLAR ENERGY** is a highly innovative, new degree program preparing to tackle present and future challenges of the energy transition. It is a part of Solar Academy Graduate School recently awarded to University of Savoie Mont Blanc (USMB).

The two-year master program S3E, is composed of two tracks: ESBC (*Energy for Solar Building and Cities*), focused on engineering, and SoLEM (*Solar Energy: Law Economics and Management*) focused on economics.

This master program is jointly developed by the School of Engineering (Polytech Annecy-Chambery), School of Business and Administration (Institut d'Administration des Entreprises IAE Savoie Mont Blanc) and School of Law (Faculté de Droit) at USMB.

Dimension internationale

Courses are taught, in English, by international experts and highly recognized partners from national and international research institutions and industry as well as by academic staff of USMB.

Disciplinary and international mobility, as well as immersion in an international research environment, are an integral part of the curriculum, bringing added value to students in terms of training and research. Grants for international mobility, awards for best projects as well as scholarships awarded for excellent academic results are available.

Les atouts de la formation

Innovative multidisciplinary education offers common introduction to economics and law, focusing on environmental economics and energy law (important challenges in the energy transition), and to engineering sciences, focusing on solar energy (highly growing sector of renewable energy) and on energy efficiency in building sector (responsible for over 40% of world primary energy consumption)

Projects and workshops complement this unique teaching experience.

M1 internship of 2 months.

Mandatory M2 internship of 6 months (February to July).

Excellence scholarships will be awarded to selected candidates, and funded by the Solar Academy Graduate School, in order to attract students with an excellent academic level and a real motivation (more information on the website).

Organisation

Effectifs attendus

24 students for ESBC track and 12 for SoLEM (in 2021)

Aménagements d'études

<https://www.univ-smb.fr/en/formation/amenagements-specifiques/>

Date de début de la formation : Beginning of September

Date de fin de la formation : End of June

Admission

A qui s'adresse la formation ?

The ESBC program recruits students with a bachelor degree in Engineering, Physics, Sciences and Technologies or equivalent.

The SoLEM program recruits students with a bachelor degree in Economics, Management, Law, Humanities or Social Sciences, or equivalent.

Conditions d'accès

A minimum of 180 ECTS credits is required as well as a sufficient knowledge of English language

Candidater et s'inscrire

Applications are only made online (Campus France, E-Candidate...). [🔗 To know more about it](#)

Attendus de la formation

For ESBC track, general knowledge of engineering sciences and physics of transfers is desirable.

For SoLEM track, general knowledge of economics is desirable

Et après

Poursuite d'études hors USMB

Ph.D. in Economics, Law, Management, Engineering Sciences, in particular solar energy deployment and energy efficiency, within the Solar Academy Graduate Program.

Following the master's program, it is possible to continue with a doctoral program either at USMB or at a French or foreign university.

Poursuite d'études à l'étranger

Following the master's program, it is possible to continue with a doctoral program either at USMB or at a French or foreign university.

Métiers visés et insertion professionnelle

The objective of the ESBC program is to train future researcher and senior executives, including engineers in technical design offices. Companies in the energy and building sectors, consulting firms, government regulatory services and NGOs are interested in candidates with a dual set of skills, such as those they will be able to develop in the ESBC Master's program.

The objective of the SoLEM program is to train future researchers and senior executives from public or private institutions and companies. Firms from the energy sector, consultancy offices, government regulation offices as well as NGOs are interested in candidates with a dual set of skills, such as the ones you will develop in the SoLEM Master program.

Infos pratiques

Contacts

Responsable pédagogique

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Laboratoires partenaires

Centre Antoine Favre

🔗 <https://univ-droit.fr/structures-de-recherche/1224-centre-de-recherche-en-droit-antoine-favre-crdafr-chambery>

IREGE

🔗 <https://www.irege.univ-smb.fr/en/homepage/>

LAMA

🔗 <https://www.lama.univ-savoie.fr/index.php?&lang=en>

LEPMI

🔗 <https://lepmi.grenoble-inp.fr/>

LISTIC

🔗 <https://www.univ-smb.fr/listic/en/>

CEA, Centre Antoine Favre, IREGE, LAMA, LEPMI, LISTIC, LLSETI, LOCIE

🔗 <https://www.univ-smb.fr/solaracademy/research-units/>

Campus

 Le Bourget-du-Lac / campus Savoie Technolac

En savoir plus

Solar Academy Graduate School

 <https://www.univ-smb.fr/solaracademy/>

Programme

Energy for solar buildings and cities
(Energie pour bâtiments et villes
solaires)

Solar energy, law, economics and
management (Droit, économie et
gestion pour énergie solaire)