

UNITA INTERNSHIPS (WP4)

UNIVERSITY: Université Savoie Mont Blanc (France)

1. GENERAL INFORMATION

- Entity or company : **USMB – CNRS – Solar Academy**
- Legal representative : -
- Address:-
- **Contact person for the internship Martin Thebault**
- **E-mail martin.thebault@univ-smb.fr**

Address

Locie Lab. 60 rue du lac Léman, Savoie Technolac, 73370 Le Bourget du Lac

2. INTERNSHIP TRAINING PROJECT

- Degree requested M2
- Transversal competencies Energy in buildings, urban solar energy
- Specific competencies solar energy, energy in buildings, modelling, CAD, communication
- Main activities during the internship: Study of a solar deployment strategy in the Ferney-Geneva Innovation ZAC neighborhood

The Ferney-Geneva Innovation ZAC is a grouping of three neighborhoods located in Ferney-Voltaire, the construction of which will be launched in 2023. These neighborhoods aim to reach net zero CO₂ emissions (Net Zero Emission District).

To this end, ambitious energy strategies will be implemented:

- A heat network from CERN
- A cold network from Lake Geneva
- A Photovoltaic (PV) self-consumption strategy

The goal of this internship is to perform a solar resource analysis of the neighborhood and PV strategies that could be implemented with the following steps:

- Identification of existing and missing data
- Using 3D plans, conduct a study of the neighborhood's solar potential (GIS approach (UMEP, Grand Geneva solar cadastre tools) or CAD (Rhino, SketchUp, Revit...))
- Identification of the ecosystem (players, objectives, constraints, opportunities, indicators)
- Proposal of a solar strategy taking into account coupling with existing energy networks (CERN heat network and GéniLac cold network)

The work will be carried out as part of several international collaborations, including the Cross-Border Innovation Chair CITEE and task 63 of the International Energy Agency. The candidate will be expected to present their work within these communities.

- Sustainable Development Goals (SDGs): renewable energies, energy transition

3.- CONDITIONS AND PROFILE OF THE INTERNSHIP

- Number of places: 1
- Place of realization of the Internship: Locie Lab. 60 rue du lac Léman, Savoie Technolac, 73370 Le Bourget du Lac
- Scheduled start date: 01/03/2023
- Scheduled start date: after 4 to 6 month, to be discussed
- Scheduled time 4 to 6 month.
- Total hours : 35h per week
- Academic tutor and University : Martin Thebault
- Contact person at the entity/company : *Benoit Stutz*
- **Other requirements** (Languages, others...)

4.- OBSERVATIONS

Expenses payed by the University or the entity: _Gratification of around 575€/month.