

## PhD candidate (f/m) in the field of the Building System Sector

**deadline: 23.09.2021**

The Department of Environment, Construction and Design (DACD) of the Applied Sciences and Arts of Southern Switzerland (SUPSI) in Mendrisio, is offering a position for a Ph.D. candidate at the **Institute of Applied Sustainability to the Built Environment (ISAAC) for the Building System Sector** in collaboration with a University or Polytechnic School granting for the qualification.

Starting date: to be defined

The position requires a full time (100%) commitment.

## Duties and responsibilities

The candidate will carry out her/his Ph.D. thesis within the framework of an experimental project aimed at developing a "Construction Cluster" for a circular and sustainable construction approach, which includes:

- development of a doctoral thesis.
- supporting the definition of procedures and techniques for the enhancement of building residuals in Switzerland and the experimentation and demonstration of techniques and methods for the development of regenerative solutions for sustainable construction
- collaboration in the development of tools for assessing the environmental impact and grey energy of building systems.
- development of innovative systems for sustainable construction and use of digital tools.
- write and publish scientific and popular articles.

## Profile

- Master's degree in architecture or construction engineering.
- Knowledge of and interest in the issues of sustainability in buildings and the recovery/reuse of existing buildings.
- Ability to analyze the phenomena of deterioration and conservation of buildings.
- Knowledge of design (BIM) and material life cycle analysis (LCA) tools such as SimaPro.
- Interest and willingness to learn and grow in sustainability issues, building management and renovation as well as in the field of renewable energy for buildings.
- Good knowledge of the English language. Knowledge of Italian or a second national language is a further advantage.

## We offer

- A contract for a maximum of the total period of the PhD (estimated at 4 years).
- Collaboration with a team of researchers with extensive experience in research and development projects in the field of sustainability in architecture and renewable energies.
- Dynamic environment of interdisciplinary work and collaboration within research projects of federal and European importance, in contact with partners, companies and professionals in the sector.
- Professional advancement and personal growth.

## Additional information

The requisites for this position are published in the "Direttive interne SUPSI" (direttiva 4B, art. 2) and in the "Regolamento del personale SUPSI", at [www.supsi.ch](http://www.supsi.ch) (see SUPSI, Documenti ufficiali).

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Applications, with cover letter stating interests and qualifications, curriculum vitae, documentation of studies and work experience, must be submitted no later than **23th** September 2021. They must be submitted only using the on-line application form.

Incomplete applications, applications sent to the wrong address or after the deadline will not be considered.