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Ref. 59/2022

Code:

Project: INVESTIGO AGAUR ENERGY IN BUILDINGS

Area: Energy Efficiency in Systems, Buildings and Communities Area

Area leader:

Group: Thermal Energy and Building Performance Group

Group leader: Dr. Jaume Salom Tormo

Junior Researcher/Engineer Position in Energy in Buildings (R1)

The "Thermal Energy and Building Performance" group at IREC offers a junior researcher/engineer position in the fields of Indoor Environmental Quality and Energy efficiency in Buildings and Clusters of Buildings.

Tasks

The activities to be developed will focus on the development of case studies through dynamic simulation software tools on the field of energy in Buildings and Clusters of buildings. Simulation models may cover specific aspects as Indoor Environmental and interaction with energy supply systems, including district heating and cooling networks. The candidate will join an interdisciplinary research team, with extensive experience and developing projects in this field of knowledge both nationally and internationally. Specific tasks:

- (i) Definition of case studies with the aim to analyze impacts of Climate Change and management strategies to activate energy flexibility in clusters of buildings in the Mediterranean climate
- (ii) Development of simulation models and running of different scenarios
- (iii) Analysis of results, reporting and conclusions

Requirements

- Appropriate academic qualification
- Young people between 16-29 years old
- Registered as job seekers in the public employment service.
- Not having worked at IREC in the last 6 months prior to the contract.

Selection criteria

- Master's degree or equivalent in fields related to: Architecture, Energy/Mechanical/Geomatics Engineering, Building Physics, Computer Engineering.

- Essential fluency in English and Catalan/Spanish.
- Knowledge of energy simulation tools. TRNSYS, Energy Plus or similars. Programming languages (Python / R, etc) and data analysis experience.
- Previous participation in projects related to the subject

Category

Researcher R.1.6

Contract duration

24 months

Incorporation

Planned for September/October 2022

Province

Barcelona/Tarragona

Procedure

Applicants should send a detailed Curriculum Vitae and a motivation letter by e-mail directly to irecjobs@irec.cat indicating "**Ref.59/2022 POSITION INVESTIGO AGAUR ENERGY IN BUILDINGS**" in the subject.