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Ref. 52/2022

Code:

Project: INVESTIGO

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 Positive Districts / Neighborhoods and Energy Communities (R1)

The "Thermal Energy and Building Performance" group at IREC offers a junior researcher/engineer position in the development of tools for the planning of Energy Positive Districts / Neighborhoods and Energy Communities.

Tasks

The activities to be developed will focus on the development of software tools for the planning of Energy Positive Districts / Neighborhoods and Energy Communities. 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) 3D energy modeling and simulation of Buildings and Districts and energy systems.
- ii) Validation and calibration of models, using geospatial data analysis techniques.
- iii) Development of impact analysis of refurbishment / climate change scenarios in Positive Energy Districts in the Mediterranean climate.

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 in GIS tools, georeferenced databases PostgreSQL+PostGis and/or MongoDB, programming (Python / C++, etc).
- Previous participation in projects related to the subject



Shaping Energy for a Sustainable Future

Category

Researcher R.1

Contract duration

24 months

Incorporation

As of September 2022

Province

Tarragona

Procedure

Applicants should send a detailed Curriculum Vitae and a motivation letter by e-mail directly to irecjobs@irec.cat indicating **"Ref. 52/2022 POSITION RESEARCHER ENERGETIC COMMUNITIES"**.