Institut de Recerca en Energia de Catalunya
Catalonia Institute for Energy Research
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Code:
Project: PR1243
Area: Energy Efficiency in Systems, Buildings and Communities Area
Area leader:
Group: Thermal Energy and Building Performance Group
Group leader: Dr. Jaume Salom Tormo

Renewable and Citizens Energy communities' researcher. Recognised researcher / Project Engineer - Building Performance
ECOS – Energy Efficiency in Systems, Buildings and Communities Group

The applicant will work as a manager and public relations in energy and buildings (at the same level of recognised researcher / project engineer) in projects related to energy efficiency in buildings and communities, DER (Distributed Energy Resources) integration and energy management systems in buildings. He/she will report to the lead-Researcher of Building Performance research line in close collaboration with him.

Description

The research will be embedded in the Thermal Energy and Building Performance Group which main research subject is the Integrated and Systemic approach for Zero Energy Communities, Buildings and Industries. The group's special focus is on the Mediterranean and other warm weather regions. The vision is to build an applied research group that contributes to accelerate the reduction of greenhouse gas emissions (GHG) through energy efficiency measures, production of clean energy, and integration of distributed renewable energy sources (RES).

The candidate will participate supporting the lead researcher in a project about the development of a platform that allows uncovering the potential of the creation of renewable energy communities, ease the link among the different key actors of the process, and shows the existing and/or ongoing initiatives in the territory as a kind of dynamic repository. The platform, that it's planned to be implemented at Catalan territory level, but replicable in others, is based on previous models developed by the group and, from there, aims implementing new calculation capabilities and functionality for the tool. The project is granted by the Generalitat de Catalunya and, will be developed in cooperation with third parties. The Thermal Energy and Building Performance Group is the lead partner of the process, being in charge of the general management of the project and on technical developments related to the technical direction and the definition and programming of the calculation engine behind the platform.

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Requirements

We are looking for excellent and highly motivated candidates with a PhD degree in Mechanical/Energy Engineering, Building Physics, Computer Science or equivalent. MSc candidates with proven experience of at least 4 years can also apply to this position. The candidate must have knowledge and proven experience in Citizens energy communities and/or Renewable energy communities, from the different points of view (legal, technical, management). Good programming skills with experience is essential: C++, Python, Data Bases (PostgresSQL). Knowledge of GIS-tools (e.g QGIS, ARCGIS, others). Knowledge of Energy Building Simulation tools is desired, as well as other simplified to detailed methods for energy calculation. Interest in urban planning and energy in buildings is also valuable.

We are looking for a methodical, excellent team-player and results-oriented candidate with good communication and management skills. Mastery of English on all levels will be desirable.

We offer.

We offer the chance to become part of an exciting and consolidated team, with international recognition, for developing cross-cutting projects in science and technology, oriented towards excellence. We also offer a research environment comprised of highly qualified and motivated professionals. Salaries will be paid in accordance with the IREC's salary policy, depending on the candidate's qualification and professional experience. Expected category: R2.1.1 – Recognised Researcher / Project Engineer Pre-consolidated.

Workplace. Barcelona (IREC headquarters)

Application

Applicants should send a detailed CV and a letter of motivation to irecjobs@irec.cat.

The application deadline May the 30th 2023.

Please indicate "**2023 –R2.1.1 – SCE ICAEN**" in the subject

10/05/2023