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Code:

Project: ARV

Area: Energy Efficiency in Systems, Buildings and Communities Area

Area leader:

Group: Thermal Energy and Building Performance Group

Group leader: Dr. Jaume Salom Tormo

First Stage Researcher / Project Engineer – ARV - Energy Models Thermal Energy and Building Performance Group

The applicant will work as a first stage research engineer in projects related to Net Zero Energy Buildings and Communities, DER (Distributed Energy Resources) integration and energy management systems in buildings. He/she will report to the Head of the Thermal Energy and Building Performance Group and to lead-Researcher of Building Performance research line.

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 work in an EU international projects within the subject of Retrofitting of Buildings, Positive Energy Districts and Local Energy Communities. The project is ARV project to start January 2022. The vision of the ARV project is to contribute to speedy wide scale implementation of Climate Positive Circular Communities (CPCC) where people can thrive and prosper for generations to come. The overall aim is to demonstrate and validate attractive, resilient, and affordable solutions for CPCC that will significantly speed up the deep energy renovations and the deployment of energy and climate measures in the urban environment.

Requirements

We are looking for excellent and highly motivated candidates with a MSc degree in Building Physics Science, Energy Systems and/or Computer Science. Basic knowledge in heat and mass transfer phenomena, energy in buildings is essential. Experience in computational energy systems simulation tools and programming is essential, too. Knowledge of TRNSYS and/or Python, R-Studio or other dynamic building simulation / computational tools is highly valuable. Knowledge of HVAC systems is highly desirable.



Shaping Energy for a Sustainable Future

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

We offer

We offer the chance to become part of an exciting and consolidated team, with international recognition, working for at least a 12 months period (full-time). 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 is First Stage Engineer Project – R1.6.

Workplace. Barcelona (IREC facilities)

Application

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

The application deadline is 6th December

Please indicate “**2022 –R1 Buildings - ARV**” in the subject