



Publish date: December 2023

Deadline for application: March 31st, 2024

Ref. 2024/019

Project: OptiREC

Area: Energy Efficiency in Systems, Buildings and Communities Area

Group: Energy Systems Analytics Group

Group leader: Dr. Josh Eichman

R2 – Postdoc position in the field of system modeling and energy markets

Description:

The Energy Systems Analytics group is seeking a PhD (R2) in the field of energy systems modeling and energy markets. The selected candidate will have the opportunity to work on cutting-edge research related to renewable energy communities and their optimal design, integration with the electric grid and scalability to support the just energy transition. As part of the Energy Systems Analytics group, the applicant will work closely with a diverse team of highly-qualified researchers.

Responsibilities:

- Lead and conduct research in the field of energy systems modeling, optimization, and energy markets.
- Design and implement planning and optimization tools for energy systems using software tools such as Python, GAMS and R.
- Collaborate with other researchers and stakeholders to develop and validate models and algorithms.
- Write impactful research papers and present research findings at conferences and workshops.
- Collaborate with national and international stakeholders to prepare competitive project proposals.

Qualifications and experience required:

Essential:

- Candidates should have a PhD in Operations Research, Computer Science, Electrical Engineering or a related discipline.
- Experience with optimization, modelling and statistical analysis.
- Experience with energy systems and related fields
- Knowledge of programming, simulation and optimization software capabilities
- Strong communication skills and ability to work in cross-functional teams
- Self-motivated and able to work independently

Language:

- Fluency in English is required (fluency in Spanish and Catalan are a plus)

«El contrato es parte del proyecto referencia TED2021-131365B-C41, financiado por MCIN/AEI/10.13039/501100011033 y por la Unión Europea “NextGenerationEU”/PRTR»



Preferred:

- Experience in renewables, electric vehicle or energy storage integration.
- Experience in grid modelling and optimization.
- Experience in competitive project proposal preparation.
- Experience in industrial and competitive projects leadership.
- Experience in supervising Ms and PhD students.

Required documents:

Applicants must submit the following documents by email to irecjobs@irec.cat, indicate in the subject **Ref.2024/19**.

- Curriculum Vitae, specifying the completed degree and any relevant professional experience.
- Motivation letter with reasons for applying, qualifications and the intentions and visions for the position.

Compensation:

Salaries will be paid in accordance with the IREC's salary policy, depending on the candidate's qualification and professional experience.

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