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Ref: 22/2023
Project:
Area: Energy Efficiency in Systems, Buildings and Communities Area
Group: Energy Systems Analytics Group
Group leader: Dra. Cristina Corchero García

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 integration with the electric grid. 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:

Required:

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

Desired:

- 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.

Language required:

Fluent in Spanish and English.

Personal Skills:

- Team Worker
- Initiative in Research and Innovation.
- Flexibility
- Results-oriented
- Analytical and synthesis capabilities

Salary:

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

Send applications by email directly to irecjobs@irec.cat including:

- Ref. 22/2023 in the subject of the e-mail
- A motivation letter with reasons for applying, qualifications and the intentions and visions for the position
- Curriculum vitae with personal, academic and professional data