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Deadline for application: June 2024

Ref. 24/067

Project: NETBUILD

Area: Energy Systems Analytics

Group:

Group leader: Josh Eichman **PI**: Gabriela Benveniste

'R2- Senior position in the field of flexibility energy management from smart buildings and electric vehicles

Description:

The Energy Systems Analytics group is actively searching for a highly motivated candidate (R2) specializing in the field of energy flexibility from smart buildings and electric vehicles. 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 pertaining to modeling and optimization of aggregation services.
- Devise innovative aggregation services, encompassing services for Vehicle-to-Grid (V2G) systems and renewable energy generation.
- Design aggregation strategies to maximize the local renewable generation within neighborhoods, considering potential signals from the distribution grid.
- Assess building flexibility by combining forecasted flexibility from various building devices.
- Develop an energy management system that allows V2G / V2B functionalities considering both aggregation signals and market interaction 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 background in Operations Research, Mathematics, Statistics,
Computer Science, Electrical Engineering or a related discipline. PhD or Master's Degree

El contrato es parte del proyecto CPP2021-009031, financiado por MCIN/AEI/10.13039/501100011033 y por la Unión Europea-NextGenerationEU/PRTR.











(minimum) in these disciplines is required.

- Experience of optimization, modelling and statistical analysis. (2 years)
- 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
- Fluent in Spanish and English

Preferred:

- PhD in any of the disciplines above described.
- Experience in renewables, electric vehicle or energy storage integration.
- Experience in energy flexibility, local markets and optimization.
- Experience in competitive project proposal preparation.
- Experience in industrial or competitive projects leadership.
- Experience in supervising students.

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Personal skills:

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

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Required documents:

Applicants must submit the following documents by email to irecjobs@irec.cat; gbenveniste@irec.cat and ligualada@irec.cat;

Reference:

- Curriculum Vitae, specifying the completed degree and any relevant professional experience.
- Motivation letter.

Offer of job position:

We offer a R2 position for 15 months on the frame of NETBUILD project.

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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