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Ref. 27/002

Project and/or research field: Energy Policy, regulatory and market assessment: Policy analysis and recommendations/ Intelligent energy management: optimization of systems, flexibility of integration, hybrid systems

Area: 220

Department: Energy System Analytics

Research field leader: Josh Eichman

PI: Gabriela Benveniste

‘R2– PhD Researcher in energy systems modelling

Description: The Energy Systems Analytics research department is seeking a senior postdoctoral researcher (R2 level) to give support the final development and integration phase of advanced modelling, control optimization tools and business models for smart energy systems and distributed energy resources. The selected candidate will be responsible for the consolidation and refinement of advanced modelling and optimization tools, ensuring their robustness and readiness for real-world application in the national projects.

The position offers a high degree of autonomy and responsibility and is ideal for candidates aiming to consolidate their postdoctoral experience and grow towards scientific leadership roles.

Key responsibilities:

- 1) Contribute to the final development and validation of business models focused on energy storage systems management and operation.
- 2) Support the integration of energy management algorithms into a commercial platform, including energy communities, storage systems and flexibility.
- 3) Guide junior researchers or engineers, supporting their work and contributing to the technical coherence of the project.
- 4) Give support to the dissemination activities related to the projects where he/she will be involved (scientific papers writing, conference participation,...)

Qualifications and experience required:

Essential:

- Hold a PhD in Electrical Engineering or similar, oriented in Energy Systems.
- Minimum 3 years of experience in energy system modelling and/or control.
- Knowledge of Energy Markets and Business models development,
- Excellent knowledge of Python
- Spoken and writing capabilities in Spanish, Catalan and English

Preferred:

- Participation as author in scientific papers related to the topic.
- Conferences participation in related topics.
- Experience coordinating or technically leading R&D tasks within national or European projects.

Personal skills:

- Capabilities of autonomous work and research sensitivity
- Interest in joining a multidisciplinary team
- Good communication skills

Required documents:

Applicants must submit the following documents by email to irecjobs@irec.cat; jeichman@irec.cat and gbenveniste@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 18 months in the framework of SYNERGEC national projects.

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

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