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Code:
Project:
Area: Energy Efficiency in Systems, Buildings and Communities Area
Area leader:
Group: Power Systems Group
Group leader: D. José Luis Domínguez García

Power Systems group announces a position as **PhD student/ Junior Researcher (R1)** in the field of resilience and monitoring systems for electrical distribution networks. The candidate is expected to develop a PhD thesis in the field of risk assessment, resilience and monitoring of electrical systems (through WireLess sensors). In addition, the candidate will work in the fields of urban electrical distribution network resilience and its interaction with other city infrastructures; aiming to develop a real-time monitoring system for risk management and detection as a DigitalTwin.

The PhD candidate in addition is expected to participate in competitive and industrial projects.

Qualifications and experience required:
Essential:

- Master in electrical engineering, industrial engineering, or energy engineering.

- Skills on several of the following fields are required:
    - Energy sector and electrical networks
    - Renewable energy sources
    - Modelling of electrical systems
- Knowledge and experience with the following software:
    - QGIS
    - Python
    - Docker
- Other experiences:
    - Publication track-record
    - Competitive project experience

Language required:

- Good communications skills in English are mandatory.
- Knowledge of Spanish and/or Catalan will be beneficial.

Personal Skills:

- Team Worker.
- Initiative and interest 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 Dr. Jose Luis Domínguez (jldominguez@irec.cat) and Human resources office (irecjobs@irec.cat) including CV, academic and professional records and transcripts and motivation letter