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Code:

Project:

Area: Energy Efficiency in Systems, Buildings and Communities Area

Area leader:

Group: Power Systems

Group leader: Dr. Jose Luis Domínguez García

TITLE: Junior Engineer/Early Stage Researcher in the field of Advanced Physics-based Modelling

JOB DESCRIPTION

The Power Systems Group announces the opening of a position as Junior Engineer / Early Stage Researcher to work in the field of advanced physics-based modelling of systems and batteries (including electro-chemical, electrical and thermal models). The tasks to be carried out will include simulation, modelling and experimental testing for data and parameters extraction.

Qualifications and experience required:

Essential:

- Bachelor or Master in Industrial Engineering, Physics, Chemistry or similar.
- Laboratory experience in electrode fabrication, cell assembly and testing
- Knowledge on material characterization techniques and battery testing facilities (potentiostats, glove box, ..)
- Experience in advanced modelling and simulation software
- Knowledge on machine learning, artificial intelligence and digital twins

Preferred:

- Experience with laboratory work.
- Experience with physics and electro-chemistry modelling
- Experience with Fluent, Comsol, Ansys or similar
- Knowledge on computer programming and data acquisition
- Knowledge on Batteries and Power Electronics.

Language required:

Knowledge of Spanish and/or Catalan is a mandatory. English is a plus

Personal Skills:

- Team Worker
- Initiative in Research and Innovation

- Flexibility
- Results-oriented
- Analytical and synthesis capabilities

What we offer:

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

How to apply:

Send applications by email directly to HR office (ireciobs@irec.cat) including CV, academic and professional records, and motivation letter.

Please, be aware that the evaluation will be done in a continuous manner, and the position will close as soon as a candidate is selected.