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Deadline for application: December 2026

Ref. 26/087

Project: MISTRAL

Area: EiEP

Group: Power Systems

Group leader: Jose Luis Domínguez-García

PI: Lluís Trilla

‘R2: PostDoc Researcher in the field of BMS design and Power-Hardware-in-the-Loop’

Description:

The Power Systems Group announces the opening of a position as PostDoc researcher to work on the MISTRAL project under the HORIZON EUROPE programme, in the field of innovative state-of-the-art models and estimators for battery systems. The tasks to be carried out will include development of novel modelling methodologies and associated laboratory experimental validation using Power-Hardware-in-the-Loop and real-time simulation, testing of kWh level batteries. The position includes lab testing activities.

Qualifications and experience required:

Essential:

- PhD in Engineering, Chemical, Electrical, Electronics, Control or similar.
- Hands on experience on fuel cell and battery operation
- Experience in battery modeling, SoX estimators and PHiL frameworks
- Experience in lab testing

Preferred:

- Experience with real time simulation.
- Experience with programming.
- Experience with AI model development.
- Knowledge on Matlab, Python, and Aurix

Personal skills:

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

Required documents:



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

Reference:

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

Offer of job position:

We offer a full-time R2 position on the frame of MISTRAL European 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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