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Code:

Project: SCAPE

Area: Energy Efficiency in Systems, Buildings and Communities Area

Area leader:

Group: Power Systems

Group leader: Dr. Jose Luis Domínguez García

TITLE: Early Stage Researcher/PhD fellowship in the field of power converters for EVs

JOB DESCRIPTION

The Power Systems Group announces the opening of a position as Early Stage Researcher/PhD fellowship to work on the SCAPE project under the HORIZON EUROPE programme, in the field of innovative state-of-the-art power electronics for EVs. The tasks to be carried out will include development of novel converter topologies and associated modulation and control strategies, including modelling, simulation, and experimental testing of small power converter prototypes.

Qualifications and experience required:

Essential:

- Bachelor or Master in Industrial Engineering, Industrial Electronics and Automatic Control, Electronics Engineering or similar.
- Design or operation of power converters.
- Experience in electronics modeling and simulation software
- Hands-on experience with power electronics is a must

Preferred:

- Interest on pursuing a PhD
- Experience with communications and automation systems.
- Experience with control boards design and programming.
- Experience with HIL systems.
- Knowledge on Matlab, Altium, or similar PCB design software.

Language required:

Knowledge of Spanish/Catalan and English is required.

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.

Starting Date:

The expected starting Date will be the sooner the better, but the candidate is expected to start in **September 2023 the latest**, although other dates could be agreed.

How to apply:

Send applications by email directly to HR office (irecjobs@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.