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Ref. 24/2022

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: PostDoc Researcher in the field of Power Electronics

JOB DESCRIPTION

The Power Systems Group announces the opening of a position as PostDoc Researcher to work on the SCAPE project funded under the HORIZON EUROPE programme, as well as on similar technical research projects in the fields of Power Electronics. The tasks to be carried out will be focused on designing advanced power converter topologies and control schemes, together with the development of advanced electro-thermal models for the implementation of power converter digital twins. Additionally, experimental activities with power converters are expected, including the design and implementation of experimental setups within IREC's lab facilities.

Qualifications and experience required:

Essential:

- PhD in Electronic Engineering, Electrical Engineering, Telecommunications Engineering, Automatic Control, or similar, or a Master (or equivalent) in the same disciplines and more than 5 years of experience in research related to Power Electronics..
- Experience on design, modelling, and operation of power electronics converters.
- Experience with control boards design and programming.
- Experience in analog and digital electronic systems design, simulation, and testing.
- Hands-on experience with power electronics is a must.

Preferred:

- PhD or more than 5 years of experience in research related to Power Electronics.
- Knowledge on multilevel power converters topologies and operation.
- Experience in communications and automation systems.
- Experience in supervising, guiding and/or training people.
- Experience in competitive project proposal preparation.
- Experience on writing papers for technical journals and conferences.

Language required:

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



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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 2022 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.

Please indicate **"Ref.24/2022"** in the subject
