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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: R1 - Junior Engineer/Early Stage Researcher on advanced control techniques for Renewable Energies

JOB DESCRIPTION

The Power Systems Group announces the opening of a position as Junior Engineer / Early Stage Researcher to work on different projects in the area of advanced control techniques for integration of renewable energies into the electric systems. The tasks to be carried out will be focused on design, modelling, and simulations, and if possible, experimental validation into the IREC Energy SmartLab.

Qualifications and experience required:

Essential:

- Bachelor or Master in Industrial Automatic Control, Control Engineering, Applied Mathematics, or field related. *Last year students may also be considered*
- Good knowledge on control theory and automation systems.
- Knowledge of multivariable control, distributed controls and Model Predictive controls.
- Experience in modelling of dynamic systems.

Preferred:

- Experience in programming languages as Python, Matlab, others.
- Experience with renewable energy sources control
- Knowledge of optimization techniques and Heuristic algorithms.
- Knowledge in system identification
- Knowledge on state estimation.
- Knowledge on sensors and programming boards as Arduino and/or Raspberry pi.

Language required:

Fluent in English. (knowledge of Spanish and/or Catalan 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 IREC webpage as well as you can send email directly to HR office (irecjobs@irec.cat) and Group responsible José Luis Domínguez-García (jldominguez@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.
