

**Publish date March 3rd 2022**

**Ref. 20/2022**

**Code:**

**Project: INTELLIGENT**

**Area: Energy Efficiency in Systems, Buildings and Communities Area**

**Area leader:**

**Group: Power Systems**

**Group leader: Dr. Jose Luis Domínguez García**

**TITLE: Senior Researcher/ PostDoc in the field of Advanced Modelling**

## **JOB DESCRIPTION**

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The Power Systems Group announces the opening of a position as Senior Engineer / PostDoc to work on the European funded IntelliGent project under the Horizon Europe Programme in the field of advanced mathematical modelling and estimation algorithms. The tasks to be carried out will be focused applying advanced modelling techniques for batteries and develop algorithms for state estimation.

### **Qualifications and experience required:**

#### *Essential:*

- Bachelor or Master in Mathematics or Control Engineering
- Knowledge on modelling strategies physics or chemistry based
- Knowledge on data driven based model
- Experience in programming
- Experience Artificial Intelligence and Machine Learning algorithms

#### *Preferred:*

- Holding a PhD in related field
- Experience with mathematical models and control systems
- Experience with laboratory work
- Knowledge on chemistry or battery systems
- Capacity to lead and work autonomously

#### *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



Shaping Energy for a Sustainable Future

**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** (However, other dates could be agreed)

**How to apply:**

Send applications by email directly to HR office ([irecjobs@irec.cat](mailto: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.20/2022**" in the subject

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