

## PostDoc Researcher

Ecole/Institution/Société:

**IREC - Energy Research Institute, Spain / Barcelona**

Discipline:

**Electronics**

Type d'emploi::

**Full-time**

Date de publication:

**2022-03-19**

Personne à contacter:

**If you wish to apply for this position, please specify that you saw it on AKATECH.tech**

### **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:.**

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

#### **Additional Information**

Salaries will be paid in accordance with the IREC's salary policy, depending on the candidate's qualification and professional experience

## **Requirements**

### **Degrees for this offer**

- Electronics, Engineering
- Electronics, Master / Master
- Electrochemistry. Science and Technology, Doctorate
- Engineering in Automation and Industrial Electronics (Higher Eng.)
- Epsevg - Master's Degree in Automatic Systems Engineering and Industrial Electronics (Muesaei)
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- Eseaat - Master's Degree in Automatic Systems Engineering and Industrial Electronics
- Eseaat - Master's Degree in Automatic Systems Engineering and Industrial Electronics
- Etsetb - Master's Degree In Electronic Engineering (Mee)
- Automatic Systems Engineering and Industrial Electronics, Master's Degree
- Automatic Systems Engineering and Industrial Electronics (Muesaei), Master's Degree
- Electrical Engineering and Industrial Electronic and Automatic Engineering, double Degree
- Electrical and Electronic Engineering
- Electronic Engineering
- ELECTRONIC ENGINEERING
- Master's Degree In Electronic Engineering (Mee)
- Master's Degree in Automatic Systems Engineering and Industrial Electronics
- Science and Engineering, Ph.D.
- Sciences: Mechatronics Engineering, Ph.D.
- ENGINEERING WITH MENTION IN INDUSTRIAL ENGINEERING, DOCTORATE IN
- Engineering, Ph.D.
- ENGINEERING, DOCTORATE IN
- Electrical Engineering, Ph.D.
- Energy Engineering, Ph.D.

## **Competencies**

- Initiative
- Flexibility
- Innovation
- Results-oriented
- Teamwork
- Team management

## **Required languages**

- English
- High level

## **Experience**

- Over 5 years

## **Labor conditions**

**Type of contract:** Full

**Working hours:** Monday to Thursday: 9:00-18:30 Friday: 9:00-14:30

**Remuneration:** 28000€ - 32000€Annual gross remuneration

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