

**Publish date October 7th 2021**

**Ref. 61/2021**

**Code:**

**Project: FI**

**Area: Advanced Materials for Energy**

**Area leader: Prof. Joan Ramon Morante**

**Group: Energy Storage, Harvesting and Catalysis**

**Group leader: Prof. Joan Ramon Morante**

**Title:** Expressions of Interest for FI (predoc) Grant in Energy Storage, Energy Harvesting and Catalysis Group

### **Job Description**

IREC, in Barcelona, Spain, is interested in receiving Expressions of Interest of potential candidates for the FI2022 call (AGAUR, Generalitat de Catalunya).

The Catalonia Institute for Energy Research (IREC) is a publicly funded institution created in 2009 based in Barcelona and Tarragona that conducts innovative research and innovation over a wide range of disciplines within the science and technology energy field. IREC contributes to sustainable development via development of new technological solutions, promotion of scientific and technological know-how related to clean energy and its efficient use as well transfer of solution and expertise to market actors. Activities include regional, national and international projects as well as direct cooperation with leading industrial partners. The institute also supports the promotion of renewable energy technologies and assists political decision-makers. IREC belongs to the CERCA and TECNIO networks of research and technologic centres of the Generalitat of Catalunya as well as EERA Joint Programmes on Smart Grids and Smart Cities to name a few. IREC has participated in more than 60 projects, with a portfolio of more than 7M€.

The **Energy Storage and Energy Harvesting** group, part of the Advanced Materials for Energy area, led by Prof. Joan Ramon Morante has a strong background and expertise on: electrode material synthesis and processing; battery and reactor implementations; electrochemical, catalyst and electronic skills as well as large capacity for advanced characterization, laboratory and field testing; performance system assessments and system integration according the application covering electrochemical batteries, especially those based on redox flow batteries; chemical energy storage.

We're looking for potential candidates in the following areas:

- Electro-catalysis
- Green Hydrogen
- Electrocatalytic reactor design (Computational Fluid Dynamics)
- Materials synthesis and characterization

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

- Master in Materials Science, Chemistry or related field
- Team Worker
- Flexibility
- Results-oriented

- Analytical and synthesis capabilities

### **Benefits**

The salary will be in accordance with the FI 2022 call.

Fellows will be based at the IREC headquarters in Barcelona.

### **Eligibility criteria:**

According to the FI 2022 call, fellows must:

- Have met the access requirements for the doctorate studies between 1/1/2019 and the day of the proposal submission.
- Have a minimum average grade of academic transcript for undergraduate studies or the equivalent degree equal to or greater than 6.50 (scale from 0 to 10), calculated in accordance with the criteria specified in the Royal Decree 1125/2003, of 5 September, established by the European system of credits and the system of qualifications for official university degrees and valid throughout the national territory.
- At the time of submitting the application, the candidates may not have benefited in previous calls from any grant for the recruitment of new research staff (FI) or any grant for the recruitment of predoctoral research staff in training in the university departments of the university system of Catalonia (FI SDUR). Nor may they have benefited from more than 12 months of any other contract for predoctoral research staff in training under Article 21 of Law 14/2011, of 1 June, on the Science of Technology and Innovation.

### **Application:**

Researchers willing to apply should check that they meet the eligibility requirements and send the expression of interest, including:

- Their CV
- A motivation letter

Expressions of interest should be sent by email directly to the KTT Office ([ktt@irec.cat](mailto:ktt@irec.cat)) and Dr. Nina Carretero ([ncarretero@irec.cat](mailto:ncarretero@irec.cat)) indicating "Call for Expressions of Interest for FI (predoc) Grant in the Energy Storage, Energy Harvesting and Catalysis" in the subject.

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Nr of positions available: 1

### **Research Fields**

- ✓ Electrochemical storage
- ✓ Green hydrogen production
- ✓ Electrochemical Reactor Modelling