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**Code:**

**Project: INVESTIGO**

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

**Group: Nanoionics and Fuel Cells**

**Group leader: ICREA Prof. Albert Tarancón Rubio**

## **PhD student position on materials for energy applications (INVESTIGO)**

The Nanoionics and Fuel Cell Group announces a first stage researcher position (R1.6) in the field of energy devices based on solid oxide cells technology. The candidate will work on developing breakthrough concepts for novel materials and processing. New concepts will be implemented for full energy devices such as fuel cells and electrolyzers. The thesis will be developed in the frame of a coordinated European project (EpiStore, [www.epistore.eu](http://www.epistore.eu)).

We offer a two years pre-doctoral contract (with the possibility of a one-year extension). Joining a team of highly qualified and motivated researchers working in the frontiers of knowledge in science and technology. International collaboration with top-leading European research groups in the field.

### **Tasks**

We are interested in a researcher highly motivated to develop novel reversible Solid Oxide Cells concepts. She/he will get experience in hands on deposition of nanomaterials by using thin film methodologies as well as a deep knowledge on electrochemical and structural characterization of energy technologies such as fuel cells and electrolyzers. Among the characterization techniques employed will be operando ellipsometry and Raman, electrochemical TERS, HT-XRD or TEM.

### **Requirements**

- Appropriate academic qualification
- Young people between 16-29 years old
- Registered as job seekers in the public employment service.
- Not having worked at IREC in the last 6 months prior to the contract.

### **Selection criteria**

- A person who is highly motivated to learn, work in a team, showing high flexibility and initiative and ability to innovate.

- Bachelor and master of Physics / Engineering / Chemistry /Materials Science or similar is required.
- Experience in thin films, electrochemistry and Solid Oxide Fuel Cells will be positively evaluated.
- Fluent English is mandatory.

### **Category**

Researcher R.1

### **Contract duration**

24 months

### **Incorporation**

The candidates should be available before the end of 2022.

### **Province**

Barcelona (IREC facilities)

### **Procedure**

Applicants should send a detailed CV, a motivation letter and bachelor/master transcripts to [irecjobs@irec.cat](mailto:irecjobs@irec.cat) and [atarancon@irec.cat](mailto:atarancon@irec.cat) (Albert Tarancón). Please indicate the reference "INVESTIGO EpiStore" in your mail.