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**Ref. Code: 23/075**

**Project: HYMET**

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

**Group: Nanoionics and Fuel Cells**

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

**Starting date: September 2023**

## **Researcher position for the development of innovative SOEC cells for the steel industry decarbonization.**

The Nanoionics and Fuel Cell Group announces a researcher position (R1) in the field of energy devices based on solid oxide cells technology. The candidate will work on developing new materials and processing very focused on the development of Solid Oxide Electrolysis Cell (SOEC) stacks for green hydrogen generation as a feedstock for the steel industry. The HYMET project, and its researcher contract, aims to decarbonize the steel industry by the use of green hydrogen as feedstock material.

We offer a six-months contract to join 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 highly motivated researcher to work in the development of innovative SOEC stacks gathering deep knowledge on electrochemical and structural characterization of energy technologies such as fuel cells and electrolyzers. Among the characterization techniques employed will be XRD, SEM, TEM, Raman, etc...

### **Selection criteria**

- A person who is highly motivated to learn and 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.
- Interest in energy technologies, materials, electrochemistry and Solid Oxide Fuel Cells will be positively evaluated.
- Fluent English is mandatory.
- Experience on SOC research in the field of new materials and fabrication developments



Shaping Energy for a Sustainable Future

### **Category**

Researcher R.1

### **Contract duration**

6 months

### **Incorporation**

The candidates should be available by September 2023

### **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).