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**Code:**

**Project: ADD-GRHID**

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

**Group: Nanoionics and Fuel Cells**

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

## **Researcher position on electrolyser stack development by 3D-Printing of electrolyte supported cells**

The Nanoionics and Fuel Cell Group announces a new researcher position (R2.1) in the field of high temperature electrolysers based on electrolyte supported ceramic cells. The candidate will work on 3D processing functional ceramics for their application as cells for SOEC stacks. The work will be developed in the frame of an industrial project with an electrolyser manufacturing company (ADD-GRHID).

We offer a 14 months pre-doctoral or researcher contract. 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 SOC concepts. She/he will get experience in design, fabrication and testing of innovative SOC stacks based on additive manufacturing technologies. Among the characterization techniques employed will be XRD, SEM, TEM, Raman, etc...

### **Selection criteria**

- A person who is highly motivated to learn, work in a team, showing high flexibility and initiative and ability to innovate.
- PhD on Physics / Engineering / Chemistry /Materials Science or similar is required, especially interesting if it is in the field of SOC technology.
- Interest on energy technologies, materials, electrochemistry and Solid Oxide Fuel Cells will be positively evaluated.
- Fluent English is mandatory.

### **Category**

Researcher R2.1



Shaping Energy for a Sustainable Future

### **Contract duration**

12 months

### **Incorporation**

The candidates should be available before November 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), [mtorrell@irec.cat](mailto:mtorrell@irec.cat) (Marc Torrell) and [atarancon@irec.cat](mailto:atarancon@irec.cat) (Albert Tarancón).