



Shaping Energy for a Sustainable Future

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Code:

Project: HyMET

Area leader: Prof. Joan Ramon Morante

Group: Nanoionics and Fuel Cells

Group leader: ICREA Prof. Albert Tarancón Rubio

R1 position on materials for energy applications

The Nanoionics and Fuel Cell Group announces a first stage researcher position 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 the HyMET project.

We offer a one-year pre-doctoral 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 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 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
- 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 electrochemistry and Solid Oxide Fuel Cells will be positively evaluated.
- Fluent English is mandatory.



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Category

Researcher R.1

Contract duration

12 months

Incorporation

The candidates should be available before May 2023.

Province

Barcelona (IREC facilities)

Procedure

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