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Ref. Code: 26/2023

Project: ADD-GRHID

Area leader: Prof. Joan Ramon Morante

Group: Nanoionics and Fuel Cells

Group leader: Prof. Albert Tarancón Rubio

Dead Line: 21st April 2023

Starting date: 5th May 2023

Researcher position on development of innovative SOEC stacks for hydrogen generation. 3DPrinting as as a breakthrough on functional ceramic manufacturing

The Nanoionics and Fuel Cell Group announces a researcher position (R2.1.2) 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 very focused on the development of SOEC stacks. New concepts will be implemented for full energy devices such as fuel cells and electrolyzers. The work will be developed in the frame of an industrial project with an electrolyser manufacturing company (ADD-GRHID).

We offer a 18 months 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 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 development of innovative SOC stacks based on additive manufacturing technologies and state of the art technologies, 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 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.



Shaping Energy for a Sustainable Future

- Fluent English is mandatory.

Category

Researcher R2.1.2

Contract duration

18 months

Incorporation

The candidates should be available before June 2023

Province

Barcelona (IREC facilities)

Procedure

Applicants should send a detailed CV, a motivation letter and bachelor/master transcripts to irecjobs@irec.cat, mtorrell@irec.cat (Marc Torrell) and atarancon@irec.cat (Albert Tarancón).