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Project: EFISOEC22

Area leader: Prof. Joan Ramon Morante

Group: Nanoionics and Fuel Cells

Group leader: ICREA Prof. Albert Tarancón Rubio

“R2 - Experienced researcher (R2) in the field of energy storage”

Description:

The [Nanoionics and Fuel Cells team](#) is a very dynamic group focusing on the development of solid-state energy conversion devices. Now we are seeking for a post-doc in the field of energy storage using solid oxide cells. The research will be embedded in the development of ceramic cells towards the knowledge on materials science and engineering, as well as the electrochemical characterization of the developed devices. The Nanoionics and Fuel Cell group opens a position of an experienced researcher (R2) in the field of energy chemical storage using solid oxide electrolysis (SOEC) technology. The aim is to investigate new materials, architectures and microstructures that allow the improvement of the efficiency and to scale up the technology. The proposed technology and operation conditions will be also rationalized by the use of modeling to ensure the predicted improvements.

The implementation of the tasks will require knowledge about materials engineering, electrochemistry, and ceramic processing. The candidate must have high education qualifications and more than 4 years of experience in materials science for energy applications with specific proven knowledge on energy storage or ceramic processing.

It will be evaluated the capability to work in a team, flexible, innovative, with initiative and problem solving skills.

Qualifications and experience required:

Essential:

The call is open to professionals from any nationalities that fulfil the following eligibility criteria:

- Hold a PhD in the areas of Chemistry, Physics, Material Engineering & Science, Chemical engineering, or related areas.
- Experience in the field of ceramics processing.
- Experience in materials for Energy and Energy storage.

Preferred:

- Knowledge in ceramic manufacturing technologies, preferable ceramic processing.
- Knowledge and experience in projects in the energy sector, especially in electrochemical energy storage, advance materials for energy, energy storage systems.

- Good communication skills; ability to communicate complex scientific information to individuals from other disciplines.
- Experience in collaborative research projects.
- Energy materials-related scientific publications
- Language required: Fluent in English

Personal Skills:

- Team Worker
- Initiative in Research and Innovation
- Flexibility
- Results-oriented
- Analytical and synthesis capabilities

Required documents:

Applicants must submit the following documents by email to irecjobs@irec.cat.

Reference:

- Curriculum Vitae, specifying the completed degree and any relevant professional experience.
- Motivation letter.

Offer of job position:

We offer a Postdoc position for 9 months.

Salaries will be in accordance with the IREC's salary policy, depending on the candidate's qualification and professional experience.

Deadline: December 15th 2024

Starting date: January 1st 2025