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Reference: 70/2023

Project:

Area leader: Prof. Joan Ramon Morante

Group: Nanoionics and Fuel Cells

Group leader: ICREA Prof. Albert Tarancon

“Pre-doc researcher on advanced nanostructured materials for energy devices”

Description:

The Nanoionics and Fuel Cells team is a very dynamic group focusing on the development of solid-state energy conversion devices ([see link](#)). The group holds a pioneering position in the development of nanostructured materials for energy generation, storage and information devices. The expertise and know-how has been consolidated thanks to the coordination of several European projects in the topic (e.g., the coordinated [Harvestore](#) and [Epistore](#)).

We are now looking for candidates for developing new materials and technologies for **energy conversion**. The developed nanomaterials will be characterized using advanced techniques (eg. SEM, XRD, Raman spectroscopy, TERS, ellipsometry) and implemented in integrable structures (such as [self-standing nano-fibres](#)) or [micromachined platforms](#) to produce functional devices.

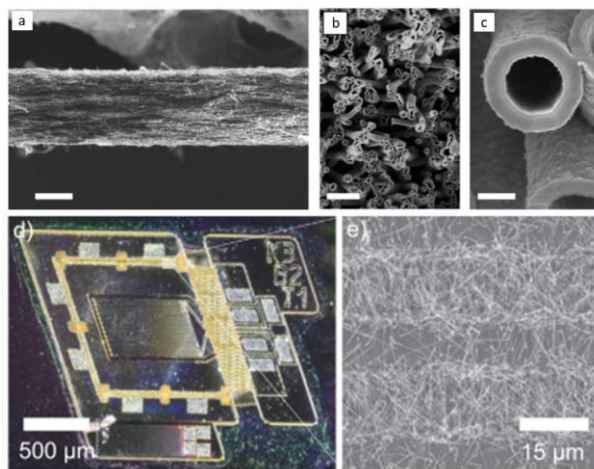
The candidate must have high education qualifications in fields such as materials science, chemistry, physics or related. She/he will be required to count with good aptitudes for team working, flexibility, innovative thinking, initiative and problem solving skills.

Qualifications and experience required:

Essential:

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

- Hold a grade and master in the areas of Chemistry, Physics, Material Engineering & Science, Nano Sciences, and related areas.



Self-sustained nanotube fibres (a-c); Micro-thermoelectric generator made of a micromachined platform with embedded nanowires providing high thermos-electric performance

Preferred:

- Good communication skills; ability to communicate complex scientific information to individuals from other disciplines.
- Language required: Fluent in English

Personal Skills:

- Team Worker
- Initiative in Research and Innovation
- Flexibility
- enjoy to solve problems and pushing the research to achieve results
- Analytical and synthesis capabilities

Offer of job position: Three-year pre-doctoral contract

Starting date: 1st September 2023 (earlier incorporation can be negotiated)

Application procedure:

Applicants must submit the following documents by email to irecjobs@irec.cat and amorata@irec.cat. The reference of the position should be indicated in the subject of the e-mail.

Required documents:

- Curriculum Vitae, specifying the completed degree and any relevant professional experience.
- Motivation letter.
- Academic transcripts (both MSc and BSc)

Deadline: 12th July 2023