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Code:

Project:

Area leader: Prof. Joan Ramon Morante

Group: Nanoionics and Fuel Cells

Group leader: ICREA Prof. Albert Tarancón Rubio

Temporary Researcher Position (Maternity leave) Microdevices for energy applications

Description: To cover a Maternity Leave the Nanoionics and Fuel Cells Group is seeking a researcher to work on the development of breakthrough concepts for energy micro-devices. We are interested in a researcher highly motivated to develop the integration of micro-electrochemical devices into microelectronic technology, the silicon technology commonly used to fabricate MEMS devices. She/he will get experience in *hands on* microfabrication using mainstream microelectronics, as well as a deep knowledge on solid oxide state devices. The project will be carried out in collaboration with the Institute of Microelectronics of Barcelona (IMB-CNM, CSIC).

His/her main task will be the design and microfabrication of the elements that form micro-solid state devices on silicon substrates. He/she will also work on the testing of the mentioned elements. The researcher will report weekly his/her progress in front of the work group.

Requirements: PhD of Material science / Chemistry / Physics / Engineering / Microelectronics or similar is required. The candidate should have some experience on micro/nanofabrication at the cleanroom environment and thin film deposition. In addition, she/he must be highly motivated to learn, work in a team, high flexibility and initiative and ability to innovate. Fluent English is mandatory.

We offer: Three months' contract starting May 2022 (non-negotiable). Joining a team of highly qualified and motivated researchers working in the frontiers of knowledge in science and technology.

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

Workplace: IREC (Catalonia Institute for Energy Research), Barcelona. Once or twice per week the candidate will visit the Institute of Microelectronics of Barcelona (IMB-CNM; CSIC), where the microfabrication cleanroom is located.

Applicants should send a detailed CV and a motivation letter to Albert Tarancón, atarancon@irec.cat. Please indicate the reference "**Ref. 31/2022 Micro-devices**" in your mail.