Shaping Energy for a Sustainable Future

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Group: Nanoionics and Fuel Cells

Group leader: ICREA Prof. Albert Tarancón Rubio

PhD student position on materials for solid state battery applications

The Nanoionics and Fuel Cells Group announces a PhD student position in the field of operando characterization of energy devices such as solid state batteries. The candidate will work on developing breakthrough concepts for thin film batteries based on oxides. The thesis will be developed in the frame of a European project.

Description: We are interested in a researcher highly motivated to develop new materials and energy devices. She/he will get experience in *hands on* deposition of nanomaterials by using thin film methodologies, operando characterization techniques, as well as a deep knowledge on next-generation batteries. Among the characterization techniques employed will be Electrochemical Impedance Spectroscopy, Raman and TERS, Spectroscopic optical ellipsometry or Atomic Force Microscopy.

Specific Requirements: 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 thin films, electrochemical characterization or batteries will be positively evaluated.

Fluent English is mandatory.

We offer: Three-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 European research groups in the field.

Incorporation: The candidates should be available before the end of 2022.
Workplace: Barcelona (IREC facilities)

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 **"Ref. 73/2022 AFRESSBE"** in your mail.