

Company Description

CIC energigUNE has a dynamic research team of more than 100 researchers and is extremely well equipped with a wide range of up-to-date facilities that are fully available for all its researchers. Also, the European Commission has recently awarded CIC energigUNE with the 'HR Excellence in Research' which reflects its commitment to achieving fair and transparent recruitment and appraisal procedures and certifies the existence of a stimulating and favorable work environment for researchers in the institution. For more details on CIC energigUNE's research activities please visit our website at <http://www.cicenergigune.com>

Information

 **Deadline:** 2022-10-31
 **Category:** Business
 **Province:** Araba / Álava

 **Country:** Basque Country
 **City:** VITORIA-GASTEIZ

Company

CIC energigUNE



Main functions, requisites & benefits

Main functions

JOB DESCRIPTION: Synthesis and characterization of polymer electrolytes, lithium salts, additives, and related materials. Polymer electrolytes formulation, processing at lab-scale, and characterization. Characterization of solid electrolyte-electrode interface (electrochemically and chemically) and proof of concept study of polymer-based solid batteries at the lab level. Collaborate in writing proposals to secure funding from government and industrial sources. **TECHNIQUES TO BE USED:** Standard operating procedures for polymer synthesis and characterization. Structural and physico-chemical characterization: nuclear magnetic resonance spectroscopy (NMR), Fourier transform infrared spectroscopy (FTIR), Raman, ICP, X-ray diffraction, elemental analysis, gel permeation chromatography (GPC), differential scanning calorimetry (DSC), thermogravimetric analysis, scanning electron microscopy (SEM). Electrolyte preparation, cell integration, and component characterization.

Requisites

CANDIDATE PROFILE: PhD in Chemistry / Polymer Chemistry / Organic Chemistry / Materials Science / Electrochemistry or a related field is required. Wide experience in synthesis of organic materials and more particularly of polymer synthesis. Expertise in polymer electrolytes and lithium batteries. Experience in analytical analysis techniques such as NMR, DSC, TGA, and electrochemical workstation. Knowledge on energy storage technologies would be considered positively. A team player who can collaborate with colleagues in other groups, technical centers, and industries. Good verbal and written communication skills in English. Spanish and Basque are optional but not compulsory.

Benefits

WHAT WE OFFER: We are offering a 24-month position in the field of solid-state batteries. Access to a complete set of existing laboratory infrastructure and equipment, as well as to the needs identified during the project development to ensure a fruitful stay and the fulfillment of the objectives in due time. Integration in an enthusiastic and multidisciplinary young group with great projection and commitments with sustainability and research quality. For more information: <https://cicenergigune.com/en/work-with-us>