

Company Description

CIC energiGUNE is a research center specialized in energy, electrochemical storage (batteries and supercapacitors), thermal energy solutions and hydrogen, a member of the Basque Research and Technology Alliance- BRTA, and, a strategic initiative of the Basque Government. CIC energiGUNE was created in 2011 to generate excellent knowledge and at the same time useful for the Basque business network, being a reference in knowledge transfer. 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: 2022-02-20
 Category: Business
 Province: Araba / Alava

 Country: Basque Country
 City: VITORIA-GASTEIZ

Company

CIC energiGUNE



Main functions, requisites & benefits

Main functions

JOB DESCRIPTION: Processing and characterization of polymer electrolytes and related materials Sample preparation for polymer-based solid batteries Characterization of the synthesized materials using analytical instruments **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: Degree in Materials Science, Chemistry, Engineer or related fields. Training and expertise in polymer synthesis, processing and characterization. Experience in analysis of NMR, FTIR, DSC, TGA, etc. Experience in Electrochemical (galvanostatic cycling, CV, impedance measurements etc.) characterization techniques will be positively considered. A team player who can collaborate with other groups, technical centers, and industries. Good verbal and written communication skills in English.

Benefits

WHAT WE OFFER: We are offering a 12-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.