

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: 2022-04-30  Country: Basque Country
 Category: Business  City: Vitoria-Gasteiz
 Province: Araba / Alava

Company

CIC energiGUNE



Main functions, requisites & benefits

Main functions

MAIN FUNCTIONS: Raw materials quality assurance procedure definition (polymers, salts, additives, fillers, etc). Polymer film electrolytes formulation and processing from lab-scale to pilot plant, characterization (rheology, DMA, tensile strength, DSC, etc) and validation. Characterization of solid electrolyte-electrode interface (electrochemically and chemically) and proof of concept study of polymer-based solid batteries at the lab level. Cell assembly both pouch and coin cell level. Support and provide suggestions for process Improvement (such as feeding systems, screw design, calendering, flat dies, slot dies, solvent free technologies, dryers, etc) and purchasing. Support CAD/CAE engineering. Write technical reports and procedures. Industrial project development and follow up IP generation towards industrialization.

Requisites

CANDIDATE PROFILE: Mechanical engineering, chemical engineering, materials/polymer engineering, or other technical disciplines in a related field. Polymer transformation processing Quality control techniques for product and process definition and validation (Rheology, DMA, Tensile strength, solid Karl Fischer titration.etc) Good verbal and written communication skills in English (Spanish or Basque valuable but not compulsory). Demonstrated self-motivation and ability to work independently. A good team player who can collaborate with other groups, academic and industrial partners. Experience in next fields will be very valuable: Polymer synthesis Extruder screws design Roll to roll process / continuous processing Energy storage and Electrochemical testing Design of experiments

Benefits

WHAT WE OFFER: We are offering a 24 months contract with a competitive salary within the category with great career development options. Candidates will join an integrated, enthusiastic, and multidisciplinary institute making high quality research and impactful contributions to the energy storage and sustainability fields. CIC energiGUNE is located close to the city of Vitoria-Gasteiz (Spain), in the heart of the Basque Country. The Basque Country is the region with the highest R&D investment in Spain, with more than 20.000 researchers. The basque research ecosystem comprises a solid and collaborating community composed of universities, technology and cooperative research centers which leads the return per capita in the European H2020 programe. For more infomation about working at CIC energiGUNE: <https://cicenergigune.com/en/work-with-us>