

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: 2021-09-30
  Country: Basque Country
 Category: Business
  City: VITORIA-GASTEIZ
 Province: Araba / Alava

Company

CIC energiGUNE



Main functions, requisites & benefits

Main functions

CIC energiGUNE is seeking an experienced/senior engineer/researcher to lead the design, characterization and stabilization of surfaces and interfaces in Li and Post-Li batteries. Job Functions: To provide technical direction and execution in the characterization and stabilization of open and buried interfaces in batteries, and all-solid-state batteries in particular. To develop/Adapt new or alternative characterization techniques for detailed characterization of all-solid-state batteries, in particular evolution, merging and degradation of conforming layers and interfaces. To understand chemical, electrochemical and mechanical evolution of electrode/electrolyte interfaces during battery assembly and operation. To development methods and electrochemical cells for the (operando) characterization of buried interfaces. Leadership role in various research activities, such as writing research proposals, project execution/reporting/management, writing high quality scientific research papers, and presenting research results at scientific conferences. To support the strategic long-term research in agreement with Scientific and Technology coordinators. To look after team member's hiring and professional development. Mentoring of undergraduate and graduate students. To develop strategic partnerships and collaborations. Experience pursuing development of intellectual property to protect technology developments and secure competitive position.

Requisites

PhD in Materials Science, Chemistry, Physics, Chemical Engineering or a related field. Strong, hands-on battery research experience supported by a strong record of publications. Strong theoretical foundation in surface and interface characterization of battery materials. Deep understanding of interfacial structure-composition-property relationships. Experience in some of the following techniques: X-ray tomography, X-ray photoemission spectroscopy (XPS), X-ray photoemission electron microscopy (XPEEM), X-ray absorption spectroscopy. Experience with Li metal anodes will be highly valued. Basic knowledge of electrochemistry. Ability to identify and solve technical problems Ability to clearly support and justify technical decisions based on data and results. Proficiency for quickly learning new skills or field of study. Good verbal and written communication skills in English Demonstrated self-motivation and ability to work independently. A good team player who can collaborate with other groups, academic and industrial partners.

Benefits

A permanent position that will give you a unique opportunity to continue developing a competitive Research Group. As a Group Leader you will find a flourishing scientific community conducting synergistic research in both the universities and other CIC Labs already operating in the region. A competitive basic salary augmented by important benefits such as life insurance, special conditions for a private health insurance, etc. that compare favorably with the best global private and public institutions. The Foundation will also help smooth the transition for you and your family, providing a welcome program that offers accommodation and addresses other aspects to help you integrate into the local environment.