

Company Description

CIC energiGUNE is a research center specialized in energy, electrochemical storage (batteries and supercapacitors), thermal energy solutions and hydrogen. As a member of the Basque Research and Technology Alliance (BRTA), CIC energiGUNE was born in 2011 as a strategic initiative of the Basque Government to generate knowledge that will be useful for the Basque business network, which makes it a reference in knowledge transfer. CIC energiGUNE has a dynamic research team of more than 130 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 (2019) 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> TO APPLY: All applicants are invited to submit their applications including a cover letter, a detailed curriculum vitae and two reference letters at this website: <https://cicenergigune.com/en/em/opportunities/92084399>. The selection process ends once the candidate is selected. CIC energiGUNE is committed to

Information

 Deadline: 2023-02-28
 Category: Academia
 Province: Araba / Álava
 Country: Basque Country
 City: Vitoria-Gasteiz

Company

CIC energiGUNE



Main functions, requisites & benefits

Main functions

CIC energiGUNE is seeking a postdoctoral researcher to work in the high throughput development of inorganic cathode materials for Li-ion and Na-ion batteries using automatized modules for their synthesis and characterization with the final goal to accelerate the discovery of materials for the energy transition. Responsibilities: High throughput synthesis of inorganic cathode materials using our new automated laboratory platforms Physical-chemical and structural characterization of the prepared materials (X-ray diffraction, electron microscopy, chemical analyses, thermogravimetric analyses, etc.) Electrochemical characterization Collaboration in the development and optimization of automatized solutions for high throughput characterization modules Assessment of Supervised Learning (SL) algorithms in collaboration with the Atomistic Modelling and Computational research group Writing of technical reports and scientific publications and participation to national and international conferences

Requisites

PhD Degree in Materials Science or Chemistry or related fields Solid background in inorganic synthesis (e.g. Li-ion and/or Na-ion electrode materials) and their physico-chemical, structural (and electrochemical characterization) using various analytical techniques (XRD, SEM, DSC/TG, galvanostatic charge-discharge tests, etc.) Basic knowledge in computation and programming (e.g. Fortran, Python, C++) will be valued Demonstrated self-motivation and ability to work autonomously A good team player who can collaborate well with other scientists A highly motivated person with an interest in research A good level of spoken and written English

Benefits

We are offering a 3-year contract and attractive professional development opportunities. 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. Access to a complete set of existing laboratory infrastructure and equipment to ensure a fruitful stay and the fulfillment of the objectives in due time. Candidates will join an integrated, enthusiastic, and multidisciplinary institute making high quality research and impactful contributions to the energy and sustainability fields. CIC energiGUNE will also help smooth the transition for you and your family, providing a welcome program that offers help with accommodation and addresses other aspects to help you integrate into the local environment (such as free language courses, help with schools for children, etc...). CIC energiGUNE is located close to the city of Vitoria-Gasteiz (Spain), the capital 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 that lead the return per capita in the European H2020 programme. For more information: <https://cicenergigune.com/en/work-with-us>.