

Company Description

CIC energiGUNE is a research center specialized in energy, electrochemical energy 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 160 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>.

Information

 **Deadline:** 2023-10-15
 **Category:** Business
 **Province:** Araba / Álava

 **Country:** Basque Country
 **City:** Vitoria-Gasteiz

Company

CIC energiGUNE

**CIC
energi
GUNE**
MEMBER OF
BASQUE RESEARCH
& TECHNOLOGY ALLIANCE

Main functions, requisites & benefits

Main functions

CIC energiGUNE is seeking for a postdoctoral researcher to develop and apply solid state NMR in the characterization of electrode-electrolyte interphases and material degradation processes. In this research, ex-situ and operando solid state NMR techniques will be carried out in order to directly follow the impact of electrochemical cycling on the interphases of Lithium batteries. This work will also include the liquid state NMR investigation of postmortem samples. Main functions: Perform electrochemical characterization and analysis of Li-ion cells. In situ cell assembly and NMR testing. Analysis of solid and liquid state NMR data. Writing technical reports and scientific publications and participation in national and international conferences.

Requisites

PhD Electrochemistry, NMR or related fields. Hands-on experience of electrochemical testing methods. Knowledge on solid state NMR would be a plus. 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 NMR 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>.