

Company Description

WHO ARE WE?
<https://cicenergigune.com/en/who-are-we>
 OUR FACILITIES:
<https://cicenergigune.com/en/pla-facilities>
 EES RESEARCH GROUP:
<https://cicenergigune.com/en/electrochemical-research-groups>
 For more details on CIC energigUNE's research activities please visit our website at <http://www.cicenergigune.com>.

Information

Deadline: 2024-01-08
 Category: Business
 Province: Araba / Alava
 Country: Spain
 City: Vitoria-Gasteiz

Company

CIC energigUNE

CIC
energigUNE
MEMBER OF
 BASQUE RESEARCH
 & TECHNOLOGY ALLIANCE

Main functions, requisites & benefits

Main functions

The hired postdoc research will work on the development of new electrode materials for next-generation Li-ion and Na-ion batteries. He/she will join the dynamic and multidisciplinary research team who has set up the Materials Acceleration Platform (MAP) of CIC energigUNE to speed up the discovery rate of new battery materials. The candidate will be in charge to explore new families of promising compounds for high-energy electrode materials, with the help of the automatized modules for synthesis and characterization developed at CIC energigUNE. The research activity will involve synthesis, structural, physico-chemical and electrochemical characterization of the electrode materials and will be done in close collaboration with world-leading industrial partners. Main responsibilities: Synthesis of inorganic cathode materials using our new automated high-throughput laboratory platform. Physical-chemical and structural characterization of the synthesized materials (X-ray diffraction, electron microscopy, etc.) Electrochemical characterization of the most promising electrode materials. Collaboration in the development and optimization of automatized solutions for high-throughput characterization modules. Collaboration in the assessment of Machine Learning (SL) models of the self-driving experimental planner. Writing technical reports and scientific publications and participation to national and international conferences. Area: Electrochemical energy storage (EES) Research group: Advanced Electrode Materials

Requisites

PhD Degree in Materials Science, Chemistry or related fields. Solid background in inorganic synthesis, and physical-chemical and structural characterizations. Demonstrated self-motivation and autonomy. 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

36-months contract and attractive professional development opportunities. Flexible working hours and hybrid distance/on-site work model. Full access to cutting-edge laboratory facilities and characterization platforms. Professional and personal development; opportunity to attend seminars, conferences, trainings, etc. Integrated, enthusiastic, international and multidisciplinary environment.