POSTDOC RESEARCHER IN ORGANIC MATERIALS FOR ENERGY STORAGE

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 150 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: 2023-07-06
Category: Business
Province: Araba / Álava
Country: Spain
City: Vitoria-Gasteiz

Company

CIC energiGUNE

Main functions, requisites & benefits

Main functions

CIC energiGUNE is seeking for a postdoctoral researcher to develop organic materials for energy storage applications. Organic chemistry stands as a powerful tool for the preparation of materials ad-hoc. Molecular engineering allows for designing and tuning the properties of organic compounds. This concept is widely applied in energy storage sector and therefore organic chemistry is present in the development of materials with application as battery components (active materials, binders, liquid and solid electrolytes, etc.). This position is connected with the increasing demand on the inclusion of organic materials in the energy field to circumvent the use of critical raw-materials and guarantee the EU energy independence plans, and also to adapt specifications of energy storage devices aiming at safe and more environmentally friendly solutions. The candidate will be participating in different projects for different battery technologies that will shape the future of energy storage. The candidate will join an interdisciplinary team employing innovative approaches to bring cutting edge science to batteries, with a research being led by Prof. Michel Armand, among other recognized researchers. The main tasks are: Design, synthesis and characterization of high added value organic compounds for energy storage, such as novel active materials for organic batteries, e.g. Aqueous Organic Redox Flow Batteries (AORFB); innovative alkaline salts and additives for high energy density lithium metal batteries and post-lithium technologies Integration and characterization of developed novel materials in electrolyte or cathode formulation.

Requisites

PhD in organic chemistry, materials science or related fields. Experience in organic synthesis is required. Experience on electrochemistry will be positively considered. Experience in the field of electrochemical energy storage will be positively considered. A good team player who can collaborate well with other scientists. A Highly motivated person with an interest in research An excellent level of spoken and written English.

Benefits

We are offering a 36-month contract as postdoctoral researcher and professional development opportunities. In addition to the appeal of the entire project, CIC energiGUNE offers a competitive salary and integration in an enthusiastic and multidisciplinary international group with great projection and commitments with sustainability and research quality. The candidate will have full access to a complete set of existing laboratory infrastructure and equipment to ensure a fruitful stay and the fulfillment of the objectives. 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 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). We allow schedule flexibility and we operate under a hybrid remote/in-person work model. 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