

Company Description

CIDETEC is a technology centre that brings together three leading international centres in the fields of Energy Storage, Surface Engineering and Nanomedicine. For more than 25 years, we have been working with leading companies to develop technology that makes the world a better place. A cutting-edge, diverse and international centre awaits you!

Information

 Deadline: 2025-08-01
 Category: Academia
 Province: Gipuzkoa

 Country: Basque Country
 City: San Sebastián

Company

CIDETEC



Main functions, requisites & benefits

Main functions

CIDETEC Energy Storage is seeking to recruit a person to join its Energy Materials unit, to carry out a doctoral thesis on the development of advanced physico-chemical models for implementation in BMS. Want to be part of this revolution? We're waiting for you! Our work covers the entire value chain, from battery chemistry to the final application. We design and develop cells, modules and battery packs tailored to our customers' needs, with a clear focus on technology transfer to industry. The researcher will carry out their doctoral thesis as part of a multi-disciplinary team covering the entire battery value chain. Your contribution You will form part of a state-of-the-art research centre, geared to sustainability and the circular economy, which has helped electrify Spain's roads and is now working towards 100% future sustainability. You will undertake your thesis in the highly innovative area of multi-physical models in BMS control. Your work will be geared to: Development of surrogate models On-board and cloud implementation of the models Validation of the models developed in a real BMS

Requisites

Education: Engineering/Physics/Mathematics. Languages: Fluent in spoken and written English. Knowledge: The successful candidate will demonstrate a sound knowledge in the following areas: Programming in Python Knowledge of numerical algorithms Knowledge of batteries Knowledge of the following will also be considered an advantage: Real-time system monitoring and control Modern programming tools, visualisation and version control (Git) Observations: We are seeking a highly motivated person with an interest in research and innovation, to join a multi-disciplinary team. They must be able to organise their work and meet deadlines and targets. *We positively value applications from people with a disability equal to or greater than 33%, in compliance with current legislation, the General Law on the Rights of Persons with Disabilities and their social inclusion (LGD).

Benefits

At CIDETEC you will be able to develop your career alongside a team of top-level professionals, in a young yet committed environment, dedicated to innovation and seeking to provide practical solutions for a more sustainable world. Professional development opportunities that will allow you to build a solid career, working on projects that transform both industry and society. Work with teams at the very highest level in local, national and European settings. Work-life balance initiatives Continuous training Privileged setting in a safe and friendly environment Variable remuneration package for all employees