

## 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: 2025-03-18  
 Category: Business  
 Province: Gipuzkoa

 Country: Basque Country  
 City: San Sebastián

## Company

CIDETEC



## Main functions, requisites & benefits

### Main functions

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 work on training and/or business transfer projects in the storage system unit's strategic line related to SW control and data exploitation. You will conduct your work in such a way that you are able to carry out several lines of research simultaneously, optimising resources and maximising results. Your work will be geared to: Code generation for embedded systems (C programming for microprocessors) Create tools for the management of laboratories and technical testing. Optimize technical and material resources. Work on the connected battery and cloud data exploitation work stream. Work on the development of new algorithms for the BMS (Battery Management System) control SW. You will also be involved in: Generating new ideas/concepts and implementing them. Drawing up technical documentation. Drawing up technical documentation connected with seeking funding.

### Requisites

Education: Engineering with a specialisation in IT/Telecommunications. Master's Degree or Doctoral thesis in the field of Software Engineering or embedded systems. Languages: Fluent in spoken and written English. Knowledge: The successful candidate will demonstrate a sound knowledge in: C++ programming languages. Knowledge of languages such as Python or Dart is an advantage. Relational (SQL) and non-relational databases (MongoDB, FireBase, etc.) Sound knowledge of design patterns. Knowledge of data infrastructures and cloud services. Experience in code management and code generation based on code quality criteria. Experience in the use of version management tools (Git, SVN, etc.). Experience of participating in large and modular projects. Experience: Experience in a desktop application programming environment or real-time Linux environment. Experience with Linux or Windows. 5+ years experience in C++ programming. Experience of programming for large projects. Experience in frameworks or libraries such as Boost, Qt. Experience in MQTT type communication protocols. Experience in Docker type container systems or cloud architecture with Kubernetes. Experience in ImGui library would be useful. Experience in object-oriented programming. Experience in modular architecture. Observations: We are seeking a highly motivated person with an interest in research and innovation, to join a multi-disciplinary team. They will be able to organise the work, keeping to the deadlines and meeting the established objectives. Having undertaken a placement abroad and more than 3 years' work experience will be considered a plus. "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 that result in a more sustainable world. Professional