

## Company Description

A leading knowledge transfer centre providing competitive value to companies. IKERLAN is a Basque (<https://www.basquecountry-tourism.com/>) leading knowledge transfer technological centre providing competitive value to companies. We seek for excellence in R&D&i, thanks to the continuous adaptation to the needs of our customers and the proximity with the business reality. Faithful to our mission, we have been working daily since 1974 to develop solutions that allow our customers to become more and more competitive. We are a cooperative member of the MONDRAGON Corporation (<https://www.mondragon-corporation.com/en/>). Thanks to a unique cooperation model, which combines technology transfer activities, internal research and training of highly qualified personnel, IKERLAN is currently the trusted technological partner of major companies in the country. To meet our goal, we are structured in three technological specialisation units: • ELECTRONICS, INFORMATION AND COMMUNICATION TECHNOLOGIES • ENERGY AND POWER ELECTRONICS • ADVANCED MANUFACTURING IKERLAN is a centre that is dynamic and open to the world. We are an agent credited by the Basque Network of Science, technology and Innovation, and we have a major cooperation network integrated by renowned European

## Information

 Deadline: 2019-11-17  
 Category: Business  
 Province: Gipuzkoa

 Country: Basque Country  
 City: Arrasate

## Company

Ikerlan

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## Main functions, requisites & benefits

### Main functions

Today's industry is faced with the challenge of a digitised society that demands increasingly high-performance electronic products. These smart electronic systems allow new industrial products to be created, adapted to the new requirements of the market by incorporating features such as: the ability to integrate and operate in hostile environments, high-performance integrated processing and adapted to the requirements of the application, energy management and connectivity solutions or industrial communication links.

In this area we develop advanced electronic systems capable of operating in industrial environments and in compliance with the regulations of the sector (railway, automotive, aeronautics, etc.). We have consolidated capacities and methodologies for the development of hardware platforms meeting non-functional technical requirements; reliable wireless and wired communication systems adapted to the requirements of industrial applications; miniaturised smart systems, capable of performing multiple sensorisation-actuation functions with energy autonomy. Functions: Interpretation and implementation of directives and regulations: product, EMC, non-functional, etc. Extraction of regulatory requirements for the system. Electrical/electronic design support. Performance of design, test and validation activities related to electromagnetic compatibility (EMC). Carrying out of tests, analysis of results and support for problem solving. Responsibilities: Participate in all phases of the project, getting involved in the compilation of requirements based on product and EMC directives and standards, architecture design, implementation, validation, etc. Perform the assigned tasks correctly, both technically and within the assigned deadlines. Document and share the knowledge acquired during the implementation of projects with the rest of the team.

### Requisites

Education: Engineering in telecommunications, electronics, Master's in embedded systems, or similar. Experience required: Knowledge of European guidelines and regulations regarding electrical-electronic products. Experience and ability to interpret regulations for the analysis and extraction of non-functional requirements. Proficiency and ability to provide guidance in the product design phase in order to comply with electromagnetic compatibility requirements. Proficiency in the fundamentals of analogue/digital electronics, power electronics and electromagnetism. Desirable: Experience in product and system electromagnetic compatibility testing. Interpretation and analysis of results. Interpretation of schematics.