

## 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 centres and universities, with which we conduct activities of research

## Information

 Deadline: 2019-05-15  
 Category: Business  
 Province: Gipuzkoa

 Country: Basque Country  
 City: Arrasate

## Company

Ikerlan



## Main functions, requisites & benefits

### Main functions

As a research scientist, you will be working on the future induction heating and wireless energy transfer systems, with a special industrial focus (robustness, efficiency, power density, etc). We are looking for a person with the eagerness to transfer and apply world-class academic research into an industrial environment. You will work within a highly motivated team of researchers. As a part of IKERLAN you will work in dynamic, motivated and creative teams with a wide range of experience and competence, and access to highly advanced laboratory facilities. You will enjoy the best combination of university-like research and industrial leading research, conducting the following tasks:

Contribute to projects that turn state-of-the-art research results into effective solutions for our end industrial customers, academic and research partners.

Gather requirements, develop innovative concepts, scout emerging technologies, design architectures, create models, validate concepts by prototypes, and demonstrate them.

Disseminate your results in high impact scientific publications, patent applications, and technical reports.

Build a network within Ikerlan as well with external partners and become known for your skills.

RESPONSIBILITIES Assessment and improvement of leading induction heating and wireless energy transfer technologies

Research in multidisciplinary teamwork within power electronics, electromagnetism and control specialists

Multi domain analysis, simulation and experimental development in industrial conditions

### Requisites

EDUCATION: A PhD in Electronics Engineering or in a similar Engineering branch EXPERIENCE: 10 years of experience in the field of power electronics and magnetic components.

Design of magnetic components for Power electronics converters (inductances, transformers or electrical machines).

Simulations in Matlab/Simulink and Flux 2D/3D (or equivalent FEM software) of converters and magnetic components, respectively.

Experience in industrial heating converter design, inductance and transformer design or wireless energy transfer design.