

## 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

## Information

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

 Country: Basque Country  
 City: Arrasate/Mondragon

## Company

Ikerlan

ikerlan

## Main functions, requisites & benefits

### Main functions

We are looking for a researcher for the Embedded Systems Cybersecurity team. We develop new cybersecurity technologies for developing electronic systems of the future in industrial environments where product cybersecurity requirements are increasingly important. In this team, we develop and integrate new protection mechanisms at both hardware and software level in order to create cyber-secure embedded electronic systems, combining electronics, information and communications technologies. This is done in order to protect the intellectual property of the system, to avoid possible external attacks, and to comply with the highest regulatory standards. In the past system protection was physical and local. Today, with the advances in Information and Communication Technologies and the growing importance of the Internet, systems are increasingly exposed. For this reason, new risks and vulnerabilities emerge, which typically manifest themselves remotely via their growing communication interfaces or locally, altering their behaviour or unlawfully accessing sensitive information. At IKERLAN our aim is to create end-to-end cybersecurity solutions for our customers with an impact on the community. To achieve this, we have the best human team, the best infrastructures and laboratories, and the effort, dedication and passion for technology. We are looking for creative people who are capable of solving problems and who are passionate about technology. We do what ordinary companies don't do, that's why we need the best. What can we offer you? Working conditions that are adapted to you. Flexibility regarding working hours and calendar. Participation in decision-making. Continuous technical training. Cohesion activities. Camaraderie and a good atmosphere! Functions: Design and develop cybersecurity solutions for embedded electronic systems. Lead the definition of projects and solutions in the field of embedded system cybersecurity related to the Internet of Things (IoT) and digital platforms. Participate in multidisciplinary teams to develop end-to-end cybersecurity systems, providing solutions along the entire technological chain. Responsibilities: To define and develop cybersecurity solutions for demanding industrial environments.

### Requisites

REQUIREMENTS Education: Electronic Engineering, Computer Engineering, Telecommunications Engineering, Industrial Engineering or similar. Security in Hardware and Embedded Software. Symmetrical and asymmetrical cryptography and lightweight ciphers. Mobile platform security. Verification and Validation related to cybersecurity. Public key infrastructure (PKI). Associated standards (IEC-62443, GICSP, etc.). Experience: Experience in embedded system software development will be considered a plus. Experience in the use of Security tools is an asset. Experience in the use of singular infrastructures will be appreciated. Skills: Teamwork skills and performance of support tasks in order to meet goals. Project management. Decision-making and conflict management skills. Communication skills with customers and management. Problem solving and creative mind.