




## Company Description

SoC-e is a worldwide leading supplier of Ethernet communication solutions based on FPGA technology. SoC-e is pioneer in developing a portfolio of IP cores that implement the leading-edge networking, synchronization and security technologies for critical systems. This SoC-e Technology has been applied in more than 100 projects worldwide in very different applications for the Electric, Industrial and Aerospace sectors. Multinationals and SME companies integrate SoC-e solutions for high-availability Ethernet (HSR/PRP), accurate timing distribution (IEEE 1588) and wire-speed cryptography implementations to secure real time traffic. However, the non-stoppable OT/IT integration demands more steps forward to use Ethernet as a single solution for real-time and high-volume traffic. SoC-e is committed to support the latest innovation for its customers. As an example, SoC-e is providing since 2017 a comprehensive solution for inter operable Time-Sensitive Networking (TSN) and an ultra-low latency technology to secure the strict-real time traffic within Smart-Grid infrastructures. We hope that you find SoC-e as your trustable partner to speed up the integration of cutting-edge technology in your products. The new challenges of Industrial and Aerospace sectors invite us to be pioneers once again and we will be glad to share this vision with you.

## Information

 Deadline: 2024-09-26  
 Category: Academia  
 Province: Bizkaia

 Country: Basque Country  
 City: Bilbao

## Company

INZU Group



## Main functions, requisites & benefits

### Main functions

Research Topic: The main objective of this PhD Research Contract is the management of the projects developed in SoC4cris focused on obtaining pre-industrialize SoC semiconductor devices for critical systems. The European critical sector industries, like Energy, Transportation, and A&D, demand new SoC devices focused on their markets. These SoCs shall include preferably EU technology to increase European sovereignty in the semiconductors market. The Specific tasks scheduled for this position are: Technical management of the on-going projects. To supervise the Front-end and Back-end design. To manage the Tapeout fabrication in cooperation with other research centers (e.g.: IMEC) and fabs. SoC4sensing staff supervision and support. To represent SoC4sensing in collaboration with the Chair Director to the Industry, University and Government. Mandatory Requirements. Master's Degree (or equivalent) in engineering, electronics, electrical engineering, physics, or computer science. Experience on VLSI digital design. Fluent English level. The Chair SoC4sensing on Semiconductor Design of the University of the Basque Country (UPV/EHU) offers one Research Contract (PhD or MsC) focused on System-on-Chip design for Critical Sectors. The duration of this contract is three years. SoC4sensing Chair is funded by private sector companies like soc-e.com and Ikerlan Coop. and by the Spanish Government. It is supported by 17 researchers from two research groups, APERT and GDED from UPV/EHU. Context: The Chair SoC4sensing on Semiconductor Design of the University of the Basque Country (UPV/EHU) offers one Research Contract (PhD or MsC) focused on System-on-Chip design for Critical Sectors. The duration of this contract is three years. SoC4sensing Chair is funded by private sector companies like soc-e.com and Ikerlan Coop. and by the Spanish Government. It is supported by 17 researchers from two research groups, APERT and GDED from UPV/EHU.

### Requisites

PhD Degree (or equivalent) in engineering, electronics, electrical engineering, physics or computer science. Strong interest for research and development of new semiconductor devices. Skillful in software/hardware engineering, optimally prior experience in FPGA developments, etc. Experience on team management, business development and semiconductor sector. Experience with EDA Tools use and installation (Linux).

### Benefits

The Chair SoC4sensing on Semiconductor Design of the University of the Basque Country (UPV/EHU) offers one Research Contract (PhD or MsC) focused on System-on-Chip design for Critical Sectors. The duration of this contract is three years. Excellent working conditions where people feel safe and can make meaningful connections with one another in attractive research environment. Flexible work model and a range of various training opportunities for personal growth.