




## Company Description

In TECNALIA we face the greatest technological challenges of humanity transforming them into opportunities. We help society and companies to grow through research, technological development and innovation in an international context. We are committed to gender equality and diversity and promote work-life balance. In TECNALIA you will work in a highly qualified team of technological excellence in an international and multidisciplinary environment. If you are a team-player, results-oriented and with leadership skills. If you feel interest in applied research and in transferring the technology that you develop to companies ... Read on ...!

## Information

 Deadline: 2020-05-22  
 Category: Business  
 Province: Bizkaia

 Country: Basque Country  
 City: Derio

## Company

Tecnalia Research and Innovation



## Main functions, requisites & benefits

### Main functions

In the Digital Building Area, within the Building Technologies Division of TECNALIA, we work in the R & D of innovative solutions based on information and communication technologies. These solutions have the objective of automating the design and operation phases of the products and the infrastructure of buildings and cities, making them more interactive, intelligent, sustainable, safer and, therefore, improving the quality of life of people. We want to strengthen the Digital Building team by incorporating a Senior Researcher in Software Development for intelligent and virtual environments that will participate in software development projects and "cloud" tools for viewing and operating buildings and cities: In intelligent environments we work with Internet of Things technologies, Artificial Intelligence, simulation and web / HTML5 technologies, applied to intelligent buildings and cities. In virtual environments we work with computer graphics technologies (2D / 3D), virtual / augmented / mixed reality, simulation and web / HTML5 technologies applied to buildings with 3D models of BIM information and the city and territory with models 2D / 3D GIS information. Responsibilities: You will lead/participate in projects of high technical level oriented to the design and development of innovative digital solutions for the sustainable transformation of buildings and cities. You will work closely with other ICT-s experts to create new digital solutions. You will collaborate in the ideation and elaboration of proposals for both national and international clients. You will participate in the technological development of the area by identifying new challenges and devising and writing R&D proposals for the scientific-technological development of the area. You will promote collaborations with other research groups at regional, national and international.

### Requisites

Requirements: Personal skills: Team – player with leadership skills and results oriented. Languages: Fluency in English and Spanish. Programming skills and advanced command of finite element analysis packages is a plus. Degree: Computer Engineering or Telecommunications. Doctoral degree will be highly valued. Proven experience in programming in a web environment (JavaScript / JAVA / HTML / CSS). Proven experience in research projects related to the above mentioned fields, creating new solutions, patents, pilot projects or other relevant research outputs. Experience in the development, management and leadership of publicly or privately funded research projects. Languages: High level of spoken and written English and Spanish. Others:

- Knowledge of Programming Environments: Visual Studio .NET / Eclipse. In addition, we value:
- Knowledge of computational intelligence and decision-making algorithms (bigdata, data mining, neural networks, cloud computing, ...).
- Knowledge of one or more of the following programming languages: C # / C ++ / Python / R.
- Knowledge of 3D technology. Virtual Reality and Augmented Reality.
- Knowledge in software programming in a mobile environment (Smartphone, Tablets, ...).
- Experience in the development of Business Intelligence software.