

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: 2020-05-31  Country: Basque Country
 Category: Business
 Province: Bizkaia

Company

Tecnalia Research and Innovation



Main functions, requisites & benefits

Main functions

In the Building Technologies Division of TECNALIA we transform Infrastructures by making them safer and economically sustainable, providing them with intelligence, optimizing their performance and extending their lifespan through innovative solutions that enable a better decision-making. We want to strengthen the Civil Infrastructures team by incorporating a Senior Researcher in Structural Engineering focused on the development of R&D projects to tackle the technological challenges in the field of structural engineering. In TECNALIA. The candidate will be part of an experienced group developing market oriented research to improve inspection, assessment and technologies for structural upgrade and life extension. Areas of Research Interest: The main focus is centered on developing and integrating new and state of the art techniques in the processes of structural inspection, assessment and upgrade. Current research trends are based on using data driven and digital technologies that improve decision-making. The research activities will have a clear market oriented approach. Research interests include, but are not limited to: Structural engineering, concrete structures, steel structures and composite structures. Structural Health Monitoring (SHM) combined with advanced data analytics tools (deep learning, artificial intelligence...) and simulation (structural behavior and degradation models). Digitalizing inspections process based on the use of automatic inspection systems, scanning, etc. Building information modelling; information technologies for construction, structural; and intelligent automation of construction. Computer Science and Information Technology: basic programming skills in functional and/or object oriented languages, preferably in Python, C++, signal/image processing, computer vision; robotics. Responsibilities: You will join a dynamic team of researchers and engineers working on R&D projects in Transport and Infrastructures at national and international level. You will lead/manage highly technical projects aimed at the design and development of innovative solutions and technological assets for the creation of new business opportunities. You will take a leading role in project preparations and will have project management responsibilities; while participating in the practical research work. You will promote collaborations with other groups at international level.

Requisites

Requirements: Doctoral degree in Civil, Structural, Mechanical Engineering or similar. 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. Excellent research record in this field. 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.

Benefits

We Offer: great opportunities for professional development participating in challenging projects related to sustainable transformation of resilient and intelligent infrastructures through technology. Integration in a highly qualified multidisciplinary team. Cooperation with