

Company Description

We are a Technological centre set up as a private non-profit Foundation. At Vicomtech, we carry out applied R&D&i. We bridge the gap between basic research and industry. We research and develop technologies related to Artificial Intelligence and Visual Computing and Interaction, always responding to market demand and contributing real solutions to businesses. We transfer technologies to enable businesses to be more competitive and to have a positive impact on society, in line with our social commitment. Furthermore, we pursue excellence in the scientific, technical internal organisation and client service aspects, meeting the highest quality standards and regulations recognised in the scientific and industrial fields. Finally, we contribute to universal knowledge by means of the Training of Researchers and the publication of the results obtained from applied research projects in well-reputed international Journals and Conferences.

Information

 **Deadline:** 2020-09-30
 **Category:** Academia
 **Province:** Gipuzkoa

 **Country:** Basque Country
 **City:** San Sebastian

Company

Vicomtech



Main functions, requisites & benefits

Main functions

Selected candidates will join mixed team of researchers (currently about 8 persons plus students, and growing), focused on applied research oriented to bring innovative technologies from Virtual Engineering and Simulation to companies of the Industry & Advanced Manufacturing sectors, especially following the international trends of Industry 4.0 and Digital Smart Manufacturing. This is one of the three main lines of the Industry & Advanced Manufacturing area at Vicomtech. Selected candidates will have a very relevant role in developing and implementing the strategy of the Virtual Engineering & Simulation activities at Vicomtech. The main technologies of specialization of this line include Interactive 3D Simulations, Human Computer Interaction, Virtual & Augmented Reality, Computer Graphics, Computational Geometry and Advanced Visualization. Application scenarios include industrial Digital Twins, Augmented Reality systems, interactive 3D simulations of complex manufacturing processes, additive manufacturing digital solutions, virtual environments for engineering, cloud-based engineering simulations, etc... The selected candidate's activities will include: Active participation in the definition of the Virtual Engineering & Simulation roadmap in Vicomtech. Management activities such as team activity planning, identification of sectors and potential clients, project execution, monitoring, financial definition of projects, external representation of Vicomtech interest groups, presentations for different audiences, etc... Frequent contact with existing or potential external partners and industrial clients, with a proactive attitude of identifying real needs and proposing potential solutions that can be developed in applied research projects. For ongoing projects, special care on client relationships and excellent execution. Direct involvement in identifying opportunities and writing relevant proposals for key customers and administrations, -including large industrial groups, strategic industrial customers, European projects H2020 and Horizon Europe-. Support other members of the team in the definition of research proposals and their acquisition. Leading role as Coordinator (or Supervisor) of relevant national and international applied R&D projects. Coordination of highly qualified research teams working in the applied research projects, and close cooperation with researchers from other lines and other areas at Vicomtech. Active participation in scientific activity of the line, including publications, research orientation and PhD processes.

Requisites

Requirements: Ph.D. in Engineering and/or Computer Science. Strong background required in Engineering, Manufacturing and Production. Examples: Mechanical, Industrial, or Production Engineering studies. Strong background and expertise required in one or more Visual Computing and Simulation technologies (Interactive 3D Simulations, Human Computer Interaction, Virtual & Augmented Reality, Computer Graphics, Computational Geometry, Advanced Visualization...). Experience: strong record (preferred 10 years or more) of applied research and technology transfer in related fields. Proven record of leadership in relevant international and national applied research projects. Scientific publications: relevant publication record more than 10 indexed article publications). PhD advisory role is a clear plus. High level of English and Spanish. Other languages are a plus. Participation in patents and other forms of Industrial Property. Excellent relational and communication capabilities, both within Vicomtech as well as with customers and partners. Ability to