APPLICATION SOFTWARE DEVELOPER

Company Description

TECNALIA is the largest centre of applied research and technological development in Spain, a benchmark in Europe and a member of the Basque Research and Technology Alliance. We collaborate with companies and institutions to improve their competitiveness, people's quality of life and achieve sustainable growth. We do it thanks to people who are passionate about technology and committed to building a better society. Our Mission: To transform technological research into prosperity. Our Vision: To be agents of transformation of companies and society for their adaptation to the challenges of a changing future. We work with an increasingly strategic business relationship model based on trust, collaboration, and a shared technological approach, whereby our main scopes of action are: smart manufacturing, digital transformation, energy transition, sustainable mobility, Personalised health, and the urban ecosystem. We are the first private Spanish organisation in contracting, participation, and leadership in the European Commission's Horizon 2020 programme and we are ranked third in European patent applications.

Information

Deadline: 2022-02-28
Category: Business
Province: Gipuzkoa
Country: Basque Country
City: Donostia-San Sebastian

Company

Tecnalia Research and Innovation

Main functions, requisites & benefits

Main functions

Tecnalia is searching for a software developer/engineer to join the Neurorehabilitation department. His main task will be to develop application software and web modules for medical platforms, medical and non-medical prototypes and demonstrator devices used in our R&D&I in the field of Neuroengineering. The developer will join the Neurorehabilitation department and work on mixed HW, FW, and SW development projects. Moreover, the developer should be able to create, maintain and evolve SW platforms and SW/FW repositories including microcontroller family lines, peripheral sensor modules (like IMUs, optical, vision), and keep competitiveness and compatibility with future generations. The candidate will join a multi-disciplinary team and will contribute actively to achieve the global objectives fixed in the annual plans by looking for synergies. In addition, the developer will take part in the following activities: Support our researchers in definition and specification of FW and SW requirements Interaction with FW designers and HW developers Interaction with external development departments Contribute to code base and repositories from other developers Code and application generation, functional testing and documentation Be used to agile development methods Technical documentation Risk analyses New ideas/concepts generation and carrying them out Orientation to product/market/results (time, cost) Continuous monitoring on the SOA

Requisites

We are seeking for an independent developer that is capable to work with several teams with focus on development and maintenance of a versatile software code base for most important currently used operating systems (Windows, MAC-OS, Android, iOS, Linux) and web application technologies. In-deep knowledge of additional firmware (FW) bases, specifically consisting of ARM Cortex-M microcontroller families with 8, 16, and 32 bit architectures is very welcome. The candidate supports the research teams with efficient software prototyping using version control tools for guaranteeing reliable and solid prototypes used in pilot tests and eventually in clinical trials. Some of these require necessary technical documentation for approvals (software manuals, risk analyses, etc.). referred University Degree: Informatics, Software development or Engineering, Telecommunication Engineering. Or Minimum experience of 5 years in an SW development job position Languages: Proficiency in English (most of the work will be carried out in English) Knowledge and expertise required: Applicant must show solid knowledge and expertise in: Design and build software. Responsible for maintaining and pushing the code to production. Develop end-user applications for therapist & patients. Programming on Embedded boards. Integrate different platforms. Experience and Skills Programming: C, C++, C# and Python. Valuable knowledge on other languages such as Java/Kotlin, Javascript, HTML5/CSS, Linux Shell scripting. Object oriented programming Write clean and maintainable code. APIs/services: C++ or RESTful APIs (JSON, XML) design and documentation. Software versioning: GIT Strong verbal and written English communication skills. Work with CI/CD pipelines   Desirable skills End-user applications: Unity, Android, Hybrids apps (Cordova, Ionic, React Native, PWA), Chrome Apps/Extensions Database: Relational database & NoSQL Experience with performance tuning and analysis tools. Cover code with test Other desirable knowledge: Quality Management: ISO 13485, ISO IEC