**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-depth 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.).

**Knowledge and expertise required:**

- **Languages:** Proficiency in English (most of the work will be carried out in English) and written English communication skills.
- **Object oriented programming**
- **APIs/services:** C++ or RESTful APIs (JSON, XML) design and documentation.
- **Other desirable knowledge:**
  - Experience with Git
  - Valuable knowledge on other languages such as Java/Kotlin, Javascript, HTML5/CSS, Linux Shell scripting.
  - Valuable knowledge on other languages such as 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)
  - Desirable database: Relational database & NoSQL
  - Experience with performance tuning and analysis tools
  - Cover code with test

**Information**

- Deadline: 2022-01-31
- Category: Business
- Province: Gipuzkoa
- City: Donostia-San Sebastian
- Country: Basque Country
- Business: Tecnalia Research and Innovation

**Main functions, requisites & benefits**

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