WYSS CENTER

Job Description

Title: Software Engineer for Neuroengineering applications
Posted on: 6 August 2020
Location: Wyss Center for Bio and Neuroengineering, Campus Biotech, Geneva Switzerland

The Wyss Center for Bio and Neuroengineering (https://www.wysscenter.ch/) is a non-profit organization focused on the translation of neurotechnology for human benefit. The Wyss Center's experienced multidisciplinary team from industry and academia integrates scientific, engineering, clinical, regulatory and business expertise conducting high risk, high reward projects from research to product. We are seeking a talented and driven individual to join our growing international team of scientists, engineers and clinicians as a Software Engineer. The individual will work on the development of software for various medical applications of neuroengineering.

Key responsibilities

- Design, implement, document and test software for medical applications of neuroengineering
- Develop real-time data processing software with scalable system architecture
- Produce high quality, clean, efficient code based on specifications and coding standards
- Troubleshoot, debug and upgrade existing software releases
- Participate actively in agile development methodologies
- Manage the software along its whole lifecycle, from requirements to release, including development, risk management and maintenance
- Work with Wyss Center scientists and collaborators to understand requirements, design and implement novel software tools
- Implement user-friendly solutions (with Qt, or similar framework) to allow high adoption of the Center's innovative technologies by stakeholders such as patients and caregivers
- Work closely with team members to integrate in-house software with third-party tools and data management systems

Required competence and qualifications:

— BS or MS in computer science, software engineering or related discipline with at least 5 years of work experience in related fields
— Very strong relevant programming skills in XML, JavaScript, C++ and Python
— Experience in design of high-volume WEB services using API protocols (SOAP, REST, AWS)
— Excellent coding standards (commenting, documentation, version control) and ability to assess existing code against them
— Experience using Agile development methodologies
— Possess strong attention to detail and aptitude for user experience
— Proven experience in hands-on software engineering for regulated applications and software applicable standards (e.g. IEC 62304 or similar)
— Experience with development of user-friendly applications (User experience) - GUI development is a

plus using tools such as Qt or others
- Familiarity with tools for software development, software configuration management, defect tracking, and knowledge of continuous integration (e.g. JIRA etc.)
- Strong drive, initiative and ability to collaborate closely with colleagues and partners in a multicultural setting
- Excellent English verbal/written communication skills, along with the ability to work well within a team environment

Additional useful skills include:

- Experience in design and development of medical device software throughout the whole lifecycle, from design input requirements until deployment and maintenance of the software in the market
- Familiarity with cybersecurity standards and requirements
- Knowledge of Linux operating systems
- Mobile platforms development experience
- Good understanding of data analytics
- Proficiency in French

Please send your CV and covering letter describing your qualifications and your motivations to HR@wysscenter.ch no later than 18th September 2020.