

Job Description

Job title: Early Career Software Engineer

Position: Permanent

Posted on: June 2022

Job location: Wyss Center for Bio and Neuroengineering in Geneva, Switzerland

About the Wyss Center for Bio and Neuroengineering, Geneva, Switzerland

The Wyss Center is an independent, non-profit research and development organization that advances our understanding of the brain to realize therapies and improve lives.

The Wyss Center staff, together with the Center's academic, clinical and industrial collaborators, pursue innovations and new approaches in neurobiology, neuroimaging and neurotechnology.

Wyss Center advances reveal unique insights into the mechanisms underlying the dynamics of the brain and the treatment of disease to accelerate the development of devices and therapies for unmet medical needs.

The Wyss Center was established by a generous donation from the Swiss entrepreneur and philanthropist Hansjörg Wyss in 2014. Additional resources from funding agencies and other sources help the Wyss Center accelerate its mission.

About the position

The **Early Career Software Engineer** will work both independently and collaboratively in a small team of software engineers to design, develop and test software for Brain Computer Interface (BCI) systems at the Wyss Center. More specifically, the individual will work within a team developing real time applications for next generation BCIs. They will work closely with neuroscientists and machine learning specialists on the design, implementation, testing, and validation of innovative software components used to restore communication and mobility to patients with severe neurological pathologies.

The individual will report directly to the Software Team Manager. This position offers the potential for professional growth and career advancement.

Key responsibilities

In his/her position, the **Early Career Software Engineer** will:

- Participate in software development for real time data acquisition and processing systems.
- Create innovative user interfaces for assistive software applications.
- Implement and test software applications.
- Monitor and extend coverage of integration tests.
- Participate in defining the end-user requirements in collaboration with neuroscientists and clinicians.

Required qualifications and experience:

- MS or BS in Computer Science or a relevant discipline.
- Previous experience with data acquisition and data processing (1-2 years).
- Proven experience in Python and C++ programming languages (1-2 years).
- Fluent in English; proficiency in French a plus.



Demonstrated skills:

- Knowledge of Object-Oriented Design techniques and common Design Patterns.
- Software deployment using containers (Docker, Ansible).
- Experience developing applications on Linux OS.
- Practical experience using version control tools (GIT, SVN).
- Strong at taking initiative, fast learner, enthusiastic, curious. Very high attention to detail.

Nice-to-have:

- Experience or interest in neuroscience.
- Knowledge of Agile development methodology.
- Knowledge of Continuous Integration, Continuous Deployment tools (CI/CD).
- Familiar with the quality standards applied in medical industry (IEC 62304, ISO 14971, IEC 62366).

To apply, please send your **CV and a covering letter** describing your qualifications, background and interest in this position to HR@wysscenter.ch. Applications received by **3rd July 2022** will receive full consideration.