Job Description

Title: R&D Engineer (Microtechnology, Life Sciences, Mechanics)
Position: Fixed-term contract 2 years
Posted: 14.08.2025 with an expected start date of 01.12.2025
Location: Tolochenaz/Geneva, Switzerland

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

The Wyss Center is an independent not-for-profit translational R&D and venture builder organization focused on advancing disruptive neurotechnologies to transform the lives of people with neurological and mental health disorders. The Center pursues transformational technologies in artificial intelligence, bio- and neuroengineering to restore essential neural functions and deliver precision therapeutics for people with debilitating neurological and mental health disorders.

Based at Campus Biotech in Geneva, Switzerland, the Wyss Center partners with universities, academic health systems, and health-tech companies, in Switzerland and internationally, to drive innovation, build ventures, and maximize clinical impact. The Wyss Center was established by a generous donation from the Swiss entrepreneur and philanthropist Hansjörg Wyss in 2014.

About the Position

The **R&D Engineer** will work on an interdisciplinary project focused on developing new automated methods for 3D tissue profiling and at the interface between microfluidics and life sciences. The goal is to develop tools and processes for 3D tissue profiling automation. The successful candidate will work closely with a team of scientists and engineers to establish 3D workflows for spatial profiling of large tissue volumes.

The ideal candidate is highly collaborative, intellectually curious, and adaptable professional with a PhD or Master's degree in a relevant field (e.g., Life Sciences, Engineering, Microtechnology, Mechanics) with a can-do attitude motivated by technical challenges. They bring a strong foundation in scientific or technical knowledge, paired with excellent interpersonal and project coordination skills. This role requires working effectively within a matrix organization, engaging with colleagues from cross-functional teams.

They will report directly to the Center's Director of Neuroimaging.

Key responsibilities

In their, the R&D Engineer will have a broad set of responsibilities which includes:

– Design, build and characterize prototype setups for 3D tissue staining involving aspects related to microfluidics, fluidics and mechanics
– Design protocols to test newly developed prototype functionalities. These tests include prototype mechanical and fluidic characterization.

- Automate immunostaining and in-situ hybridisation assays on the prototype. Adapt protocols to optimize assay performance.
- Perform imaging of samples.
- Troubleshoot and maintain the prototype.
- Conduct technical investigations and ensure continuous improvements during the data generation phase of the project
- Collect, analyze, and present data in a comprehensive and understandable manner
- Report regularly on the project progress
- Facilitate effective communication between project partners, ensuring alignment on goals, timelines, and deliverables
- Contribute to the development of project documentation, including protocols, SOPs, reports, and presentations.

Required competence and experience:

- PhD in a relevant field : Microtechnology, Life Sciences, Mechanics or closely related, or MSc with 2+ years of experience in relevant role.
- Hands-on experience in hardware development and characterization.
- Skilled in root-cause analysis and rapid troubleshooting.
- Experience in fluorescent imaging and working in a wet lab environment is a strong plus.
- Experience in data analysis and image processing is a strong plus.
- Ability to work in an independent manner.
- Strong interpersonal and communication skills, with the ability to work effectively across functions and cultures.
- Fluency in oral and written English (C1) is a must

To apply, please send your CV and cover letter to HR@wysscenter.ch no later than 31.08.2025.