



Job Description

Title: R&D Mechanical Engineer

Position: Permanent (100%)

Posted on: 27th October 2020

Location: Wyss Center for Bio and Neuro Engineering, Campus Biotech, 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 **R&D Mechanical Engineer** will join the Center's mechanical team to design and develop innovative active implantable and wearable medical devices for a range of human applications. The role involves collaboration with neuroscientists, clinicians and engineers to determine design criteria and to develop new solutions in a timely and efficient manner.

Key responsibilities:

As an **R&D Mechanical Engineer**, the successful candidate will design, develop, and test microelectromechanical (MEMS) solutions for brain-computer interface devices, including electromechanical systems, active implantable medical devices, surgical robotics, wearable technologies and more. He/she will own tasks from initial idea to production, devoting time in the lab to perform hands-on micromechanical research and development (R&D) activities as well as collaborating with internal and external experts. More specifically, he/she will:

- Create mechanical designs for next-generation implantable and wearable devices
- Prototype new concepts using rapid prototyping methods (CAD, 3D printing, CNC machining etc.)
- Design and develop miniaturized, biocompatible hardware solutions (using materials such as silicone, epoxy, ceramics, titanium or other emerging materials and technologies)
- Use micro-fabrication/micro-assembly technologies such as laser-welding, resistance welding, micro-machining, over-molding, and others
- Balance technical requirements with manufacturability
- Document new designs in compliance with the applicable medical regulations and standards
- Support verification activities and transfer designs to external production and clinical grade manufacturing partners
- Collaborate with internal experts (electrical, software, and systems engineers and scientists) and external partners (academic and industrial)
- Help drive a positive, collaborative, and translation-focused culture at the Wyss Center

This position reports directly to our Chief Technology Officer.



**Required competence and experience:**

- MSc or PhD degree in Micro-engineering, Mechanical Engineering, Biomedical Engineering or equivalent with at least 4 years of relevant work experience
- Hands-on experience with design, development and testing of micro-fabricated electromechanical systems
- Good knowledge of precision design, manufacturing, and assembly processes
- Aptitude for innovation, willingness and ability to drive change, passion for quality and continuous improvement
- Results oriented, proactive problem-solving attitude with strong sense of ownership, urgency, and drive
- Excellent documentation and communication skills, ability to interact at all levels of the business
- Good autonomy and initiative level
- Fluent in English, French is a plus

Preferred Qualifications:

- Experience with long-term active implantable and/or class III medical devices
- Experience or interest in neurotechnology
- Experience in a regulated environment (such as ISO 13485 and/or 21 CFR certified)

This position is available **immediately**

To apply, please send your CV and covering letter describing your qualifications, background and interest in this position to HR@wysscenter.ch no later than 27th November 2020.

