**Title:** Senior Mechanical Engineer for Active Implants  
**Posted on:** 23rd June 2020  
**Availability:** This position is available immediately  
**Location:** Wyss Center for Bio and Neuro Engineering, Campus Biotech, Geneva Switzerland

The Wyss Center for Bio and Neuroengineering ([https://www.wysscenter.ch](https://www.wysscenter.ch)), a non-profit organization focused on the translation of neurotechnology to clinical applications, is seeking a **Senior Mechanical Engineer for Active Implants** to join our growing, international team of scientists, clinicians and engineers. The individual will work both independently and collaboratively as a member of the Wyss Center’s technical team to develop innovative advanced implantable and wearable technologies that are designed to collect real-time neurophysiological signals, transmit multichannel recordings and provide closed loop control signals for a range of human applications.

**Key responsibilities:**

In his/her position of **Senior Mechanical Engineer for Active Implants**, the successful candidate will share his/her time between hands-on mechanical design and engineering tasks, collaborations with external partners, as well as resources and lab facilities management at the Wyss Center. More specifically, he/she will:

- Conceptualize and create mechanical designs for the Center’s next-generation implantable and wearable devices
- Prototype new concepts using rapid prototyping methods (3D printing, machining, etc.)
- Develop and improve hermetic and near-hermetic encapsulation solutions (using implantable silicone, epoxy, ceramics, titanium or other emerging materials and technologies)
- Design and improve connection solutions to connect implants to leads (using laser micro-welding, resistance welding, crimping, or other connection technologies)
- Balance technical requirements with manufacturability and cost
- Document new designs in compliance with the applicable medical regulations and standards
- Support Design Verification activities and transfer designs to external production and clinical grade manufacturing partners
- Act as an active member of the Wyss Center’s technology team and collaborate closely with Electrical Engineers, Software Engineers, Scientists, and Product Managers
- Collaborate with clinicians and end-users to capture, analyze and implement requirements to design technologies suitable for a patient/clinician setting
- Scout for novel technologies and establish strategic collaborations with related suppliers / partners
- Collaborate with external partners (academic and industrial)
- Coordinate a small team of Mechanical Engineers and manage the lab facilities and budget
- Help drive a positive, collaborative and translation-focused culture at the Wyss Center

This position will report directly to our CTO and will supervise a team of two Engineers.
Required competence and experience:

– MSc in Micro Engineering, Mechanical Engineering, Biomedical Engineering or equivalent with at least 7 years of relevant work experience in MedTech industry (in an ISO 13485 and/or 21 CFR certified environment)
– Hands-on experience with design, development and testing of long-term active implantable and/or class III medical devices
– Good knowledge of medical-grade manufacturing and assembly processes
– Team leadership skills, including people skills
– Good knowledge of the different stakeholders, suppliers and sub-contractors in the space and experience in managing sub-contractors and vendors
– 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 communication and presentation skills, ability to interact and influence all levels of the business as well as partners
– Fluent in English, French is a plus

Additional skills include:

– Experience or interest in neurotechnology
– Expertise in ISO 14708 and IEC 60601
– Good knowledge of medical-grade materials and components used for long-term active implants
– Specialization in one or more of the following areas:
  o Rapid Prototyping methods
  o Accelerated aging of medical devices in different conditions

To apply, please send your CV and covering letter describing your qualifications and your motivations to HR@wysscenter.ch no later than Friday 24th July 2020.