

1-year, renewable / Based in Biopôle, Epalinges (Vaud), Switzerland / Full time, 100%

Volumina Medical is a medtech start-up, spin-off from EPFL (Ecole Polytechnique Fédérale de Lausanne), active in the field of implantable medical devices for reconstructive and plastic surgery. Since 2018, we develop cutting-edge injectable polymer-based biomaterials designed to reconstruct damaged tissues, e.g. after tumor ablation or due to aging.

The start-up Company is preparing for a growth phase and is starting a new collaboration with the Medical school of Geneva, Department of Pathology, laboratory of Prof. Hugues. In order to accompany this growth, we are looking for a highly motivated candidate to be responsible for the development of new polymeric biomaterials.

This position is the ideal position to transit from academia to industry and to be responsible for a R&D ambitious project. The candidate will interact closely with the CEO and the CSO of the Company and will be integrated in an interdisciplinary dynamic team.

Your mission

- Identify and tests new polymer synthesis routes with polysaccharides in order to create biomaterial implants
- Identify and tests methods for functionalizing a scaffold biomaterial with polymers, proteins and small molecules / drugs
- Produce biomaterials and collaborate with biologists for testing *in vitro* and *in vivo* properties.
- Characterize biomaterials (microscopy, chemical characterization (DSC, TGA, HPLC, FTIR, ...), titrations, rheology, compression tests, ...)
- Write technical study protocols and reports
- Perform literature searches and write scientific publications
- Participate to the improvement and (re-)validation of quality control methods such as pH, mechanical properties measurement, microscopy, HPLC, GPC...in collaboration with Senior Validation Engineer.

Your background and experience

- PhD in Chemistry, Polymer Chemistry, Chemical Engineering with 1-3 years experience.
- Strong Practical/laboratory experience in synthesis and characterization of materials and polymers
- Experience in Mass Spectroscopy is a plus
- Knowledge of Implantable Medical Device field (GMP, ISO13485) is a plus.
- Strong communication and teamwork skills.
- Excellent creativity, and problem-solving skills.
- Oral and written proficiency in English is a strong plus

Your personality

- You enjoy laboratory work and care about the quality of your results and their documentation
- You are organized and rigorous in your work
- You are proactive, polyvalent and able to work autonomously
- You are objective oriented and challenges stimulate you
- You enjoy working in a multidisciplinary team and having interactions with others
- You are motivated by the translation of your work into a product for clinical and human use

We are offering

- A dynamic and stimulating work environment, at the forefront of biomedical technology and innovation
- The opportunity to express your skills and to grow together with the team
- The integration into a multidisciplinary team, where your opinions count
- To contribute in improving quality of life for millions of patients in the long term

To apply, please send your application (CV, motivation letter, reference letters and work certificates or any additional relevant documents) to Dr. Amélie Béduer, amelie.beduer@volumina-medical.ch