Internship project

“Preparation and characterization of biodegradable cardiovascular implants”

Eindhoven, The Netherlands

Our R&D team in Eindhoven has an internship position open for an enthusiastic materials science or biomedical engineering student with an adventurous mind and a practical approach towards overcoming translational hurdles, willing to work in a dynamic research environment, and intrinsically motivated to work in a close-knit multidisciplinary team towards the clinical realization of Xeltis’ revolutionary products. Project start is flexible, but aimed at early 2018.

Who are we looking for?

Requirements:

- Background in materials science, mechanical engineering, biomedical engineering, or relevant discipline
- Pragmatic attitude, critical reasoning and well organized with good problem- solving capabilities
- Experience with electrospinning and/or other fabrication methods for biomaterials would be a plus
- Experience with mechanical and physico-chemical characterization of absorbable polymers would be a plus
- Experience with Scanning Electron Microscopy (SEM) and/or characterization methods would be a plus
- Ability to work independently after a short training period
- Passionate about using technical skills for treating patients
- Fluent in English

Project examples include, but are not limited to:

- Fabrication of scaffolds from customized biomaterials and setting up, performing and reporting of studies on customized electrospun biomaterials
- Method development and mechanical testing of new customized biomaterials based on functional requirements
- Translational research on (biodegradable) polymers and potential application in the field of medical devices
- Collaboration in a team on products with a medical-biological application

The assignment location will be Eindhoven, The Netherlands. The internship period is at least 6 months.

About Xeltis

Xeltis is a clinical-stage medical device company pioneering a restorative approach in heart valve therapy. Xeltis' technology enables natural heart valve restoration.

Xeltis' heart valves enable the patient's own body to naturally restore a heart valve that is defective or no longer works through a new therapeutic approach called Endogenous Tissue Restoration (ETR).

- With ETR, the patient's natural healing system develops tissue that pervades Xeltis' heart valve, forming a new, natural and fully functional valve within it. As ETR occurs, Xeltis implants are gradually absorbed by the body.
- ETR is enabled by the porous structure of Xeltis' heart valves, which are made of bioabsorbable polymers, based on Nobel prize awarded science. RestoreX, Xeltis' new technology platform, is the world's first polymer-based technology designed to enable natural restoration of heart valve function.
- Today, patients with artificial heart valves generally endure repeated replacement procedures and complications from chronic inflammation or take long-term medication with potentially severe side effects.
- Xeltis' novel restorative approach has the potential to improve the lives of hundreds of thousands of patients with cardiovascular conditions requiring heart valve replacements. It also may reduce overall healthcare system costs.

At Xeltis, we recognize that people make a difference. We are a young, dynamic, international team of 50+ professionals dedicated to improving patients' lives through innovation. Xeltis' headquarter is in Zürich, Switzerland and its R&D and production facilities are in Eindhoven, The Netherlands.

Our Company values:

We at Xeltis:

- Innovate to improve patients' lives
- Listen and challenge with respect
- Grow through personal development
- Act like owners for a common goal
- Work with JOY!

For more information and to submit your CV, please contact Xeltis HR:
recruitment@xeltis.com