

One Master Thesis at Biomed Elements B.V.

### **Biomed Elements**

BioMed Elements (located in Nijmegen and the US) strives to develop biomaterials that will enhance lives. We focus on biomaterials based on biocompatible and degradable biopolymers. BioMed Elements develops, manufactures and supplies biomaterials for application areas such as wound management, medical aesthetics, orthopedics, tissue-engineering and cosmetics.

Currently, BioMed Elements is offering an internship in the following project:

#### **Anti-inflammatory nanoparticle-based hydrogel formulation for sinus surgery.**

In this project BioMed is developing a new nanoparticle-based controlled anti-inflammatory delivery system which will be used for sinus surgery. Post-operative complications are very common in this type of surgery which is a high burden on the healthcare system.

The goal of the internship is to provide technical in and output for tackling the current challenges in time-released anti-inflammatory particles from the gel. Activities include, but are not limited to: do a literature review on best practices and state-of-the-art technology and translate this to technical requirements, provide input from ENT surgeons and performing research on technical challenges of the hydrogel.

During your internship you will be given the opportunity to perform desk and experimental research along with the BioMed researchers and gain experience with our unique formulas for developing customized biodegradable polymer solutions. This project is part of an international collaboration with Germany as part of the INTERREG program of the European Union.

This project is highly confidential and we will not be able to disclose more details on the process.

#### **Anti-inflammatory nanoparticle-based hydrogel formulation for sinus surgery.**

For more information please contact:

Marcela Garcia ([m.garcia@biomed-elements.com](mailto:m.garcia@biomed-elements.com))

Sjoerd Quint ([s.quint@student.ru.nl](mailto:s.quint@student.ru.nl))