Bachelor/Master thesis (m/f/d) Chemistry/Chemical Engineering/Industrielle Biotechnologie _ Entrepreneurship in TUM MedTech Spin-off

Dymium is an early-stage MedTech spin-off operating at the Bioseparation Engineering Group at TUM. Our team has developed and patented a new surgical method for the residue-free, minimally invasive removal of kidney stone fragments using magnetism. The technology has the potential to save thousands of patients from follow-up surgeries every year. Our team won multiple grants and awards, such as TUM IdeAward 2019, Bayerischer Businessplan Wettbewerb 2022, and MedTecLIVE Start-up Contest 2023.

We are looking for a highly motivated bachelor or master student (m/f/d) with an entrepreneurial mindset to help us bring our product into production. You will have the unique opportunity to take responsibility for the development of a medical device, learn new analytical methods and improve your scientific way of working. The focus of this work will be on crystallization experiments that simulate kidney stone formation. We want to analyze the influence of remaining kidney stone fragments and dust inside the kidney and the effect of magnetic particles on the kidney stone formation.

What do we offer?

- An international team helping you to thrive - committed, focused, and with humor
- Be part of Munich's startup ecosystem - we are located at TUM Incubator
- A chance to help the development of an instrument for a new surgical procedure with a high impact on patients worldwide
- Good supervision of the thesis and support in all technical questions
- The opportunity to learn new techniques and analytics

How can you help us?

- Work in the laboratory and analyze the crystallization of kidney stones
- Work on entrepreneurial challanges
- Literature research
- Bring in your ideas and commitment and push the frontiers of medical technology

Who are we looking for?

- High interest and motivation to work in MedTech
- Experience in responsible and independent laboratory work
- Studies – in Chemical Engineering, Industrielle Biotechnologie, Chemistry, (Bio)Process Engineering, Biology, or similar
- Good analytical and conceptual capabilities
- Highly independent and self-reliant working style
- Englisch / German business fluent
- Familiarity or interest in quality management systems (e.g. ISO13485) and an interest in regulatory affairs are desirable but not mandatory

Please apply directly per e-mail. Include a short summary about yourself and your laboratory experience and a course assessment

Don't hesitate to contact us in case of questions

Chiara.turrina@dymium.de