

Do you like a challenge? Are you creative with leadership skills? Are you looking for a position that offers great opportunities for personal growth and freedom within a young, ambitious start-up company? Then it's you we are looking for!

Materials and Process Engineer

Our profile

Materiomics is a small biotech company focused at interaction between cells and surfaces. Materiomics is dedicated to bring our unique, designed surface topographies to medical devices to improve device performance. Our 'TopoChip' platform is a revolutionary and highly efficient approach to find optimal surfaces for any (medical) device. The TopoChip features thousands of distinct surface topographies. Through high-content screening we determine the efficiency of each surface to elicit a specific desired biological response. Once a highly efficient 'hit-topography' has been identified, we bring this topography to the actual production process of the medical device. We apply the TopoChip technology both for our own product development and for third party developments. Materiomics currently holds a small number of employees and is growing to about 10-15 full-time employees within the next years. Materiomics is located in Maastricht, which will be the place of work, though part of the engineering work is done in the Mesa+ Nanolab of the University of Twente, Enschede. We also have close cooperation with national and international companies and academic groups.

The challenge

Currently TopoChip screens are running for various applications while validation of already identified hit-topographies for other fields is ongoing. Translation of hit-topographies into medical device production processes is being set-up and prototyping is ongoing to develop innovative medical devices within the years ahead.

Within the position offered, you will be responsible for:

- Design and production of new TopoChip/topography containing masks, molds and imprints into a range of materials
- Develop/identify new micro-patterning processes to transfer high density patterns into a range of materials and fabrication processes
- Collaborate with our technical partners to develop new technologies to scale up our topographies into industrial manufacturing processes
- Design the process, and coordinate the support of, transitioning our designed topographies into existing manufacturing processes of third parties
- Technical support in discussing with clients regarding translation of our topographies into their manufacturing process during execution of third party research
- Giving support to co-workers when involving visual inspection of biological samples requiring methods as SEM and optical microscopy
- Detailed documenting of all developed processing protocols and methods using our database and QC system
- SOP writing for developed assays and protocols

Your profile

You have a MSc in electrical-, chemical-, or mechanical engineering or related fields and at least 3-5 years of relevant work experience and are an independent and creative professional.

Your skill set includes experience with:

- Design and optimize protocols for micro- and nano-imprint technologies
- Clean room technologies including lithography, wet- and dry etching, deposition methods and hot-embossing
- Inspection methods including SEM, optical microscopy, and AFM
- Computer-aided design/drafting, using programs as SolidWorks or similar
- Quality control protocols, SOP writing

- Experience with large-density and high-resolution micro-patterning technologies and/or high-volume medical device process development is an advantage

As a person you have:

- An independent work style who can take the lead in communication with external/collaborating (engineering) parties
- Outstanding knowledge of (scientific) English in speaking, in reading and in writing
- Flexible, open-minded and enthusiastic attitude
- Willing to learn new techniques and skills
- Excellent social and communication skills

Our offer

We offer a top level work environment with excellent opportunities for personal development in an ambitious, young company. Our team is enthusiastic, dynamic and flexible. We have a strong team spirit. You will have great opportunity to grow within this position and have freedom to fill in the specifics of your work activities. You will help translate science to business. The assignment is for 1 year initially, with possibilities for extension.

Contact details

If you feel your ambitions match with ours and that you are the person we are looking for to strengthen our team and build with us this young and dynamic company, please send your application before September 1, 2017 to Frank-Jan van der Velden (frank-jan.vandervelden@materiomics.com). You can also turn to Frank-Jan for questions. Your application should be in English and should consist of a detailed CV and a motivation letter explaining why you are interested in this position.