

Micronit Microfluidics BV designs, develops and sells lab-on-a-chip products to academic and industrial customers all over the world. Micronit focusses on the total development process of the microfluidic devices, from design to high-volume manufacturing. Design and testing of the products is done within the Research & Development department. The products are manufactured in a high-tech cleanroom facility on the University of Twente campus.

Micronit is a dynamic and innovative company, founded more than a decade ago as a spin-off of the University of Twente. The company is fast-growing with around 50 enthusiastic and dedicated employees. The culture is informal, but hard-working. More information can be found on www.micronit.com.



Micronit Microfluidics (The Netherlands)
is seeking to fill the position of an

EXPERIENCED RESEARCHER (INDUSTRIAL POSTDOC)

**in the frame of a Marie Curie Initial Training Network (ITN):
“Sample in – answer out optochemical sensing systems” (SAMOSS)**

SAMOSS is an international network-project funded by the European Union and started in October 2013 with partners in seven countries. The overall objective of the project is to develop optochemical sensors applied to detect analytes such as mycotoxins or antibiotics in foods, drugs in healthcare and endocrine disruptors such as contraceptive hormones in environmental samples. These sensors will be integrated into devices that will handle a chain of operations constituting an autonomous process starting with a sample and ending with reporting a result as an “answer”. All this will be realized by the use of technologies such as microfluidics, miniaturization, natural and synthetic recognition elements and sensitivity enhancement strategies (e.g. single photon counting, plasmonic enhancement, catalytic or enzymatic amplification of the signal) for optical detection. All these functions need to be performed autonomously, on one platform that is small and cheap enough to be replicated in multiple copies and deployed for use on-site in different environments

Within this network we offer the position for an Experienced Researcher (industrial Postdoc) at Micronit to work on an individual project to develop microfluidic devices with optical readout. The researcher will be heavily involved in the design of the microfluidic devices and modular concepts in close collaboration with the academic partners. Furthermore there will be a strong interaction with two more ITN projects currently running at Micronit. The researcher will benefit from the SAMOSS training program provided through a number of training events as well as local training offered by Micronit.

The employment in this position should start January or February 2015 for the duration of 24 months including secondments to partner institutions. We offer highly competitive monthly living and mobility allowances depending on family status in accordance to the PEOPLE Work Programme 2013 (European Commission C(2012)4561 of 9 July 2012) as well as full social benefits. The salary will be commensurate with a Marie-Curie ER position.

TASKS OF THE ENVISAGED PROJECT:

- Design and testing of microfluidic devices for cell culturing and monitoring
- Design and testing of microfluidic devices for cell based diagnostic assays
- Ensure that the devices are amenable for mass production by defining and implementing in the designs specific requirements for industrialization

EXPERTISE SOUGHT:

- Doctoral degree in natural or technical sciences such as micro technology, applied physics, mechanical engineering, chemical or biomedical engineering
- Experience with microfabrication is essential
- Experience with microfluidics or bioreactor technology is considered an advantage
- At least a basic knowledge of biochemistry, biotechnology or related fields
- Good grasp of the English language, both oral and written
- Willingness to learn Dutch is considered an advantage

SPECIFIC REQUIREMENTS FOR INTERNATIONAL TRAINING NETWORKS

- Experienced Researchers must, at the time of recruitment by Micronit, be in possession of a doctoral degree or have at least four years of full-time equivalent research experience and have less than five years of full-time equivalent research experience. Full-Time Equivalent Research Experience is measured from the date when a researcher obtained the degree which would formally entitle him or her to embark on a doctorate, either in the country in which the degree was obtained or in the country in which the researcher is recruited or seconded, irrespective of whether or not a doctorate is or was ever envisaged.
- Mobility: at the time of recruitment by the Micronit, researchers must not have resided or carried out their main activity (work, studies, etc.) in The Netherlands for more than 12 months in the 3 years immediately prior to the reference date. Compulsory national service and/or short stays such as holidays are not taken into account.

INTERESTED?

Please send your application in English by post, or E-mail before December 31, 2014, including cover letter outlining the motivation and qualification for the project position; Curriculum vitae (CV); list of publications; copies of university degree(s) and school certificates and 2 letters of reference to the address below. Please take notice of the illegibility criteria mentioned above and that incomplete applications cannot be taken into consideration.

Dr. Elwin Vrouwe
Micronit Microfluidics
Colosseum 15
7521 PV Enschede
The Netherlands
Phone: +31 53 850 6 850
E-mail: jobs@micronit.com