

07.05.2019

Research Internship - Biomedical Engineer

The Transport at Nanoscale Interfaces Laboratory at Empa Dübendorf is looking for a skilled scientist/engineer with background in biomedical engineering or a related field to work on an industry collaboration project for 6-12 months. The candidate will work on the development of a novel point-of-care in-vitro diagnostics platform in close collaboration with the startup company MOMM Diagnostics GmbH.

Tasks:

- Sensor fabrication: Design and fabrication of 2D microstructures.
- Prototyping of fluidic and (electronic) measurement devices.
- Run immunoassays and cell culture assays.

Profile:

- Master or PhD in Biomedical Engineering or a related field.
- Experience in electronics and device engineering.
- Experience in running biochemical assays is a plus
- Fluent in English (oral and written) and preferably basic knowledge of German

Funding is secured for 6 months with the intention to prolong for another 12 months.

For your application and further information about the position, please contact Dr. Mathias Wipf (mathias.wipf@empa.ch) and check our website <https://www.empa.ch/web/s405/overview>

MOMM Diagnostics aims to develop a novel in-vitro diagnostic test for the early diagnosis of preeclampsia (PE) at the point-of-care (POC). PE affects 5-8% of all pregnancies and is one of the top five causes for maternal and infant illness and death. Early identification of the condition is crucial to minimize complications. PE screening, using a simple test for the definite diagnosis at the obstetrician's office helps to save lives and money. MOMM's PE test will consist of single-use cartridges for the simultaneous analysis of multiple PE biomarkers from patient's blood in conjunction with a hand-held reader for immediate use at POC.