The Institute of Microtechnology of the Technische Universität Braunschweig is looking to fill a PhD position (Entgeltgruppe E 13, m/w/d) as part of Prof. Dr. Andreas Dietzel’s research group. The earliest starting date for this position will be on 01.04.2020. The contract has a duration of two years with the option to be prolonged after an evaluation.

Broadly, the research topics to be explored are the construction of a paper-based biosensor with on-chip calibration for clinical monitoring, ambulance, emergencies, and patient self-monitoring and the build up of a functional model for a wide range of possible applications. The biosensor shall contain multiparametric, quantitative, immunochromatographic components. Research will focus on new materials, fabrication techniques, and novel sensor designs.

**Desired qualifications:**
- An above-average degree in mechanical engineering, materials science, physics, or related
- Experience in sensor technology
- Experience in micro/nano-fabrication
- Theoretical and practical experience in the area of microfluidic systems
- Interest in gaining teaching experience
- Flexibility and reliability
- Good command of English, German beneficial

The Institute of Microtechnology (Institut für Mikrotechnik) is home to a dynamic team working on a range of interdisciplinary subjects in a collaborative environment. A state-of-the-art clean room facility and associated laboratories provide all necessary equipment and support for the fabrication and characterization of novel microsystems.

The TU Braunschweig aims to increase the number of women in science and technology. Women are therefore strongly urged to apply, so are qualified people with handicaps. The university is multi-cultural and applications are welcome from all nationalities.

Applications should be sent directly to Prof. Dr. Andreas Dietzel at a.dietzel@tu-braunschweig.de by **February 14th, 2020.** Please include a complete CV accompanied by a cover letter and a copy of all available university transcripts. We look forward to receiving your application.