**Department**
Department of Micro- and Nanosystems  
Institute of Materials in Electrical Engineering 1

**Job site**
RWTH Aachen University

**Description of position**
PhD position for an electrical engineer or physicist with M.Sc. degree (University).

**Job description**
**Our profile**
The department develops thin-film-based micro- and nanosystems especially for life-science and (bio-)chemical applications. Scientists from different disciplines are working together. The department is partner of the Central Laboratory for Micro-and Nanotechnology (CMNT), see www.cmnt.rwth-aachen.de.

**Your tasks**
You will be part of the DFG-funded Research Training Group “Mechanobiology in Epithelial 3D Tissue Constructs (ME3T)”. For details, see [https://me3t.rwth-aachen.de](https://me3t.rwth-aachen.de). You will work in project D3 entitled “Magnetic micromanipulators for probing rheological properties of scaffolds and vital 3D tissue constructs” focusing on the development and characterization of pencil-type magnetic micromanipulators as well as on ferrofluid droplet deforming setups. The devices will be evaluated on cells and tissues in cooperation with project partners.
The successful applicant ust be accepted as Dr.-Ing. candidate at RWTH Aachen University, Faculty of Electrical Engineering and Information Technology.

**Requirement profile**
You have quickly and excellently completed your Master studies at a university in Electrical Engineering or Physics. During your studies, you have acquired deep knowledge in microsystems and microsystem technologies. Expertise in magnetics rheology and/or cell related applications is desirable. Beside your scientific qualification, you distinguish yourself by single-mindedness and resilience and by an excellent capacity for teamwork. You are fluent in written and spoken English.

**Pay category**
TV-L 13 (100%)

**Hiring date**
July 01, 2019

**Duration of employment**
3 years

**Contact**
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Equal career prospects for women and men.
Severely disabled applicants with equal qualification will be given preferential consideration

**Application deadline**
March 15, 2019

**Application to**
[https://me3t.rwth-aachen.de/positions](https://me3t.rwth-aachen.de/positions)