

<b>Department</b>	Department of Micro- and Nanosystems Institute of Materials in Electrical Engineering 1
<b>Job site</b>	RWTH Aachen University
<b>Description of position</b>	PhD position for an electrical engineer or physicist with M.Sc. degree (University).
<b>Job description</b>	<p><b>Our profile</b></p> <p>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 <a href="http://www.cmnt.rwth-aachen.de">www.cmnt.rwth-aachen.de</a>.</p> <p><b>Your tasks</b></p> <p>You will be part of the DFG-funded Research Training Group “Mechanobiology in Epithelial 3D Tissue Constructs (ME3T)”. For details, see <a href="https://me3t.rwth-aachen.de">https://me3t.rwth-aachen.de</a>. 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.</p> <p>The successful applicant must be accepted as Dr.-Ing. candidate at RWTH Aachen University, Faculty of Electrical Engineering and Information Technology.</p>
<b>Requirement profile</b>	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.
<b>Pay category</b>	TV-L 13 (100%)
<b>Hiring date</b>	July 01, 2022
<b>Duration of employment</b>	3 years
<b>Contact</b>	Prof. Dr.-Ing. Uwe Schnakenberg, Phone: +49 241 80 27842 Email: <a href="mailto:schnakenberg@iwe1.rwth-aachen.de">schnakenberg@iwe1.rwth-aachen.de</a> <a href="http://www.iwe1.rwth-aachen.de">www.iwe1.rwth-aachen.de</a>
Equal career prospects for women and men.	
Severely disabled applicants with equal qualification will be given preferential consideration	
<b>Application deadline</b>	March 31, 2022
<b>Application to</b>	<a href="https://me3t.rwth-aachen.de/positions">https://me3t.rwth-aachen.de/positions</a>