

Department:	Institute of Molecular and Cellular Anatomy (MOCA)
Job site:	RWTH Aachen University Hospital
Description of the position:	PhD Position: Mechanobiology of Embryo Implantation
Job description:	<p>Our profile</p> <p>Research at MOCA deals with the cytoskeleton as a main integrator of cell and tissue function. Particular emphasis is on the use of morphological and functional imaging techniques in vital cells, tissues and organisms (www.moca.ukaachen.de).</p> <p>Your tasks</p> <p>You will be part of the DFG-funded graduate school "Mechanobiology in Epithelial 3D Tissue Constructs" (ME3T; me3t.rwth-aachen.de). Your project A3 "Mechanobiology of adhesion during implantation and early placentation" combines 2D and 3D co-culture systems with state-of-the-art microscopy and mechanobiological analyses. You will (i) study the contribution of epithelial polarization and hormonal regulation on trophoblast-endometrial adhesion and penetration, and (ii) investigate the influence of connective tissue stiffness on trophoblast adhesion and migration.</p>
Requirements / Your profile:	<p>Your profile</p> <p>We are looking for a highly motivated and ambitious PhD student with a strong background in cell biology or mechanobiology. Knowledge in the fields of biomaterials, tissue engineering and microscopy is appreciated, but no prerequisite. The successful applicant must have completed a master or equivalent degree in biology, biomedical engineering or a comparable study program to be accepted either as a Dr. rer. nat. or Dr. rer. medic. candidate at RWTH Aachen University. Willingness for teamwork, the ability to work independently and excellent English language skills are expected.</p>
Pay category:	TV-L 13 (65%)
Hiring date:	July 01, 2022
Duration of employment:	3 years
Contact/Send application to:	Univ.-Prof. Dr. Rudolf Leube Email: rlube@ukaachen.de , phone: +49 (0)241 80-89107 www.moca.ukaachen.de
Equal career prospects for women and men.	
Severely disabled applicants with equal qualification will be given preferential consideration.	
Application deadline: March 31, 2022	