



Fully-Funded PhD Position at University of Stuttgart, Germany:

Structural and Mechanical Adaptation of Skeletal Muscle

Applications (female/male/diverse) are invited for an exciting PhD research at the University of Stuttgart. The position is immediately available and start date will be determined upon acceptance.

The interdisciplinary research focus on understanding (i) the pathological changes on skeletal muscle fibers using imaging modalities such as micro CT and SEM and (ii) how these changes modify the in vivo mechanical behavior of skeletal muscles.

The PhD student will be responsible for (i) collecting experimental data from patients in the hospital, (ii) preparing tissues for imaging, (iii) the analyses and interpretations of the data, and the writing of scientific reports. The candidate will have access to the laboratories and all the necessary equipment and software in Heidelberg and Stuttgart. New collaborations will possibly be established in some other neighboring cities.

The candidate will have a

1. MSc degree in Biomedical Engineering or a comparable degree in a related field
2. strong interest in experimental research in musculoskeletal biomechanics
3. previous experience/knowledge in imaging (sample preparation, data collection, and/or image processing)
4. excellent analytical, numerical skills, and problem-solving skills
5. programming skills in Matlab and Labview
6. very good written and communication skills and fluency in English (German knowledge is an advantage)
7. self-reliant work attitude in a collaborative environment.

Pay scale of the position: A 100% TVL13 position.

The Application: Please e-mail your 1-page cover letter, CV, copies of academic transcripts, and contact details of two academic referees, as one single pdf to: filiz.ates [at] isd.uni-stuttgart.de

If this is not possible for you, you can also send us your application in paper form. Please note that we cannot send application documents back. Therefore, please do not submit original documents, as we will destroy the application documents in accordance with data protection once the procedure has been completed.

The University of Stuttgart would like to increase the proportion of women in the scientific field and is therefore particularly interested in applications from women. Handicapped applicants will be given preference if equally qualified. The setting is made by the central administration.

Filiz Ates, PhD

Head of Experimental Biomechanics Group

University of Stuttgart, Faculty of Aerospace Engineering and Geodesy

Institute of Mechanics, Structural Analysis and Dynamics of Aerospace Structures.