PhD Student/ Research Assistant (f/m/d)

Job description: In metallic materials subjected to a tribological load, the microstructure undergoes complex and so far not completely understood changes. It has so far not been possible to formulate a microstructure-properties relation. To elucidate such subsurface microstructural changes further, you are going to work with high-purity copper samples in unlubricated sliding contacts as a model material and investigate the elementary mechanisms for these changes. For this, you will make use of high-resolution electron as well as ion microscopy (SEM/FIB), in combination with electron backscatter diffraction (EBSD) and Transmission Kikuchi Diffraction (TKD). You will present your results at international conferences as well as publish in peer-reviewed journals.

Qualification: You have a Masters degree in Materials Science and Engineering, Mechanical Engineering, or a related field. You are creative, hard working and have an independent work attitude as well as the capability to work in a team. Good English skills as well as first experience in the field of tribology or electron microscopy are advantageous.

We offer: A cutting edge research environment, close supervision and fully equipped state-of-the-art laboratories.

Salary: The remuneration occurs on the basis of the wage agreement of the civil service in TV-L.

Institute: Institute for Applied Materials (IAM-CMS)

Contract duration: 3 years

Starting date: As soon as possible

Application up to: May 31st 2021

Contact person in line-management: For technical details please contact: Dr. Christian Greiner (greiner@kit.edu)

Application: Please send your application including a cover letter, your CV, and all certificates/references in electronic form to: greiner@kit.edu

Karlsruher Institut für Technologie (KIT)
Institut für Angewandte Materialien (IAM-CMS)
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We prefer to balance the number of female and male employees. Therefore, we kindly encourage female applicants to apply for this job.

Recognized severely disabled persons will be preferred if they are equally qualified.

KIT is certified as a family-friendly university (familienfreundliche Hochschule) and offers part-time employment, leaves for family-related reasons, dual career options, and individual coaching for family-work balance.