PhD student and Postdoc positions in Materials and Micro Tribology

Job description: We are actively seeking candidates (f/m/d) for experimental PhD student and Postdoc level positions. In the Materials Tribology group (Dr. Greiner), the fundamental mechanisms determining frictional contacts are investigated. This includes tribologically induced oxidation; a project in collaboration with the Max Planck Institute for Iron Research. The second topic is the design and application of a highly instrumented in situ tribometer, combined with the application of data science methods. In the micro tribology group (Dr. Schneider), laser radiation is used to generate a morphological surface texturing, lowering friction and wear.

Qualification: We expect a PhD or Master's Degree in Materials Science, Mechanical Engineering or related subjects. Creativity, motivation, independent work ethics as well as the ability to work in a team are further requirements. Good English skills are expected. The opportunity to learn German is encouraged. First experience with tribology as well as with electron microscopy are advantageous.

We offer: Cutting edge projects and state-of-the-art facilities and equipment. The ERC and DFG funding of these projects guaranties high international visibility. We offer a collaborative work environment.

Salary: The remuneration occurs on the basis of the wage agreement of the civil service in TV-L 13.

Institute: Institute for Applied Materials (IAM-CMS)

Contract duration: Postdoc level: 1 year / Ph D students: 2 years (with the certain option to extend the contract)

Starting date: As of now

Application up to: The review of applications will continue until the positions are filled

Contact person in line-management: For further details please contact either Dr. Schneider (Johannes.schneider@kit.edu) or Dr. Greiner (greiner@kit.edu)
Application: Application can be submitted at

Karlsruhe Institute of Technology (KIT)
Institute for Applied Materials (IAM-CMS)
c/o Andrea Doer
Strasse am Forum 7
76131 Karlsruhe

or electronically to greiner@kit.edu.

Postdoc level applicants are asked to provide the contact details of one academic reference.

We prefer to balance the number of female and male employees. Therefore, we kindly encourage female applicants to apply for this job.

If qualified, handicapped applicants will be preferred.

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.