

Leoben, 17.12.2018

Announcement of a PhD Position

Grain boundary modifications in nanocrystalline metals

Background:

In the group of 'Micro- and Nanomechanics' led by Assoz. Prof. Dr. Daniel Kiener the ERC Consolidator Grant TOUGHIT focusses on the achievement of superior strength and toughness for metallic composite materials by tailoring microstructure and interface properties. In this regard, we are looking for a PhD candidate to work in the field of grain boundary modifications of nanostructured materials.

Requirements:

Applicants must hold a Master degree in materials science or an equivalent field.

Additional qualifications:

The candidate is expected to conduct and analyze experiments, develop novel scientific ideas, and disseminate the achievements at international conferences and in peer reviewed publications. Furthermore, the applicant will participate in teaching and supervision of Bachelor and Master Student projects.

Candidates should have a strong background in mechanical properties and microstructure analysis. Previous experience regarding electron or focused ion beam microscopy, in-situ nanomechanical testing or severe plastic deformation will be considered advantageous.

Applicants are expected to work in an international environment. They should exhibit a high degree of motivation and independence, as well as excellent presentation and communication skills. English language is mandatory, German language skills are beneficial.

Location:

Department of Materials Science, Chair of Materials Physics,
Montanuniversität Leoben, Jahnstr. 12, Leoben, Austria.

Timeline:

Applications are until 15th of January 2019, earliest starting date is 1st of February 2019. The project duration is for three years, with possibility for an extension.

Contact:

For further information or application contact Dr. Kiener: daniel.kiener@unileoben.ac.at

Applications accompanied by supporting documentation in **English** (Cover letter, CV, certificates, credentials, names and addresses of 2 references) should be submitted via email only and will be accepted until a suited candidate is found.