



A position is available at the Faculty of material science and material technology, Institute of Non-ferrous Metallurgy and Purest Materials for a



Research Associate – reference number 277-E/2021

to be filled as of 01.02.2022.

Pay grade: E13 TV-L
Hours: 1,0 FTE (part-time possible)
Contract type: until 30.06.2026

Job description:

- Scientific coordination and management of the project which is associated to copper and copper-alloy melt filtration
- Planning and conceptualization of an innovative pilot filtration unit to concentrate non-metallic inclusions
- Independent planning and realization of lab-scale experimental campaigns to determine the filtration effect with use of the above mentioned unit and during sand casting
- Carrying out systematic studies with regard to the removal of non-metallic inclusions and dissolved gases (including oxygen and hydrogen) as result of filtration and melt conditioning
- Close collaboration with industrial partners
- Presentation of project results at international conferences, and within peer-reviewed journal publications

What you can expect from us:

- Access to the infrastructure of the Institute of Nonferrous Metallurgy and Purest Materials (INEMET)
- Working at a family-friendly university with flexible working hours
- Remuneration according to the provisions of the collective bargaining agreement for the public service of the federal states in accordance with personal requirements
- Attractive fringe benefits, e.g. Asset-based benefits (VL), company pension schemes (VBL), health management
- Training at the start of your work by experienced colleagues, opportunities for further education

What we expect from you:

- A university diploma or master's degree with a focus on metallurgy, process engineering, materials science or related area
- First experiences with regard to carrying out high temperature experiments and thermodynamic modelling will be considered a plus
- Good German and English language skills (verbal and written)
- Working in an independent manner
- Ability to work in a team
- Scientific curiosity
- Willingness to pursue further scientific qualification (Doctorate)

**For further information please contact Univ.-Prof. Dr.-Ing. Alexandros Charitos, Phone: +49 3731 39-2303,
E-mail: Alexandros.Charitos@inemet.tu-freiberg.de**

The applicant must meet the hiring requirements for fixed-term employment contracts according to the WissZeitVG. Applicants with disabilities will receive preferential consideration, provided they possess equal qualifications. For consideration, we ask you to submit proof of your disabled status together with your application documents. TU Bergakademie is committed to increasing the number of women in teaching and research positions, hence qualified female candidates are especially encouraged to apply.

Written applications, including a CV, motivation letter and copies of all relevant qualifications documents (certificates, diplomas), should be submitted by **26 November 2021** stating **reference number (277-E/2021)** to the following address:

**TU Bergakademie Freiberg, Dezernat für Personalangelegenheiten, 09596 Freiberg or
bewerbungen@tu-freiberg.de**

Your application documents will not be returned, please only submit copies. Candidates will not be compensated for any costs incurred for attending interviews. TU Bergakademie Freiberg is always looking for scientific personnel from various disciplines. Further information can be found at <http://tu-freiberg.de/wirtschaft/karriere/stellenausschreibungen>