

The TU Bergakademie Freiberg, Faculty of Materials Science and Technology, Institute of Nonferrous Metallurgy and Pure Materials is seeking to fill the position of

Research Assistant (m/f/d)
Advertisement reference number 203-E/2024

to be filled on a temporary basis as part of a third-party funded project.

Remuneration: Pay group 13 TV-L
Job scope: 1.0 FTE (40 hours/week; part-time possible)
Time limit: 31.08.2027



These are your tasks:

- Working on a research project to reduce CO₂ emissions through the use of CO₂-neutral fuels (H₂) in the smelting of copper cathodes for the production of semi-finished copper products
- Coordination and participation in the conversion of a pilot plant to H₂ burner operation by cooperation partners
- Independent execution of laboratory experiments with subsequent evaluation and transfer to the technical and pilot plant
- Research, investigation, simulation and evaluation of the influence of H₂ on liquid copper with regard to the chemical-physical properties
- Investigation and implementation of an online measurement methodology for hydrogen content in liquid copper
- Work in cooperation with industrial partners and other institutes
- Presentation of the results at specialist conferences and preparation of scientific publications

What you can expect from us:

- Working at a family-friendly university with flexible working hours
- Remuneration in accordance with the provisions of the collective agreement for the public service of the federal states in line with personal requirements. requirements
- Attractive fringe benefits, e.g. capital-forming benefits (VL), company pension scheme (VBL), health management; discounted ticket for local public transport "Job-Ticket"
- Induction training by long-standing employees
- Further training opportunities

We expect you to have:

- university diploma or master's degree in the field of metallurgy, process engineering, materials science or a comparable degree
- Knowledge in the field of high-temperature processes and thermodynamic modeling will be positively evaluated
- Very good written and spoken German and English skills
- ability to work independently
- Ability to work in a team
- Scientific curiosity

For further information please contact Prof. Dr.-Ing. Alexandros Charitos (Tel. 03731/39-2303, e-mail: Alexandros.Charitos@inemet.tu-freiberg.de) and Mr. Ludwig Blenau (Tel. 03731/39-2051, e-mail: ludwig.blenau@inemet.tu-freiberg.de) are at your disposal.

Applicants (m/f/d) must fulfill the recruitment requirements for the conclusion of employment contracts for a fixed term in accordance with the WissZeitVG. Severely disabled persons or persons of equal status will be given preferential consideration if they have the same aptitude, performance and qualifications. For appropriate consideration, please enclose proof of severe disability/equal status with your application documents. The TU Bergakademie Freiberg aims to increase the proportion of women in teaching and research and is therefore particularly interested in applications from qualified women.

Please send your application with a cover letter/motivation letter, CV, copies of all relevant certificates, stating the **advertisement reference number (203-E/2024) by 10.11.2024** (the postmark of the ZPS of the TU Bergakademie Freiberg applies) to:

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

Your application documents will not be returned, please submit copies only. Interview costs will not be covered. The TU Bergakademie Freiberg is also looking for staff from various disciplines. Further information can be found at: <https://tu-freiberg.de/stellenangebote>