TECHNISCHE UNIVERSITÄT BERGAKADEMIE FREIBERG
Die Ressourcenuniversität. Seit 1765.

FAMILIE IN DER HOCHSCHULE
Mitglied des Best Practice-Clubs

The Faculty of Mechanical, Process and Energy Engineering, Institute of Mechanical Process Engineering and Mineral Processing, seeks to fill the positions of **one**

research assistant (m/f/d) – tender number 159-E/2022

limited till 31.03.2025. (an extension to 48 months is being sought)

Salery:	Pay group 13 TV-L
Job size:	100 % (Part-time possible, if applicable)
Start of work:	01.10.2022 or later

In January 2021, the German government announced the core projects for the implementation of the National Hydrogen Strategy (https://www.wasserstoff-leitprojekte.de/). As part of the H2Giga flagship project, the TU BAF will coordinate research in the crosscutting topic of recycling. The aim is to research an adapted recycling technology parallel to the development of the Giga-watt electrolyser technology, so that the material cycles of the critical raw materials can be closed in the future. In the context of the research activities, a position for doctoral studies as a scientific assistant (m/f/d) is available at the TU BAF.

Your tasks are:

- Working on a research topic (within the framework of a BMBF research association) in the field of mechanical recycling technology
- Analysis of material compounds and slags (e.g. via computer tomography)
- Experimental research work on the digestion and separation of mixtures of materials from electrolyser components.
- Experimental research work on balancing in mechanical recycling processes
- Development of additional relevant laboratory and pilot tests
- Use of engineering test rigs / process scale-up
- Process modelling - data evaluation - digitization

What we offer:

- A varied and responsible job in the laboratories and at the excellent measurement technology of the institute MVT/AT; excellent research infrastructure in laboratory locations as well as in the associated particle analytics
- Integration of your research work into a professional network
- Industrial relevance of the research work; working at a family-friendly university with flexible working hours
- Remuneration according to the provisions of the collective agreement for the public service of the German states (Länder) in accordance with personal requirements; attractive fringe benefits, e.g. capital-forming benefits (VL), company pension scheme (VBL), health management; further training opportunities

What we expect from you:

- Above-average Master degree (or equivalent) in process, materials or environmental engineering, chemical engineering, mechanical engineering, applied natural sciences or comparable
- Knowledge of the basic processes of mechanical process engineering as well as programming
- Good English and German language skills (verbal and written) and readiness for further qualification

For further questions on the content of the individual topics, please contact Prof. Dr.-Ing. Urs Peuker (urs.peuker@mvtat.tu-freiberg.de, 03731 39-2916).

Severely disabled or equivalent applicants (m/f/d) will be given preferential consideration in the event of equal suitability, performance and qualifications. For appropriate consideration, we ask that proof of the severe disability/ equality is attached to the 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 the usual documents, quoting the **tender code (159-E/2022)**, by **15.07.2022** (the postmark of the ZPS of the TU Bergakademie Freiberg applies) to:

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

Your application materials will not be returned; please submit copies only. Interview costs will not be covered. The TU Bergakademie Freiberg is also looking for scientific personnel from different disciplines. Information under: http://tu-freiberg.de/wirtschaft/karriere/stellenausschreibungen