

Pre-Doc position number 159-E/2026

Faculty of Chemistry, Physics and Biosciences
Institute of Chemical Technology

Job scope: 0,5 FTE (20 hours/week)
Time limit: 31.12.2029

Remuneration: E13 TV-L
Start: 01.01.2027

At the TU Bergakademie Freiberg, Faculty of Chemistry, Physics and Biosciences, Institute of Chemical Technology there is a vacancy as of January 1st 2027, as **Research Assistant - Pre-Doc** as part of a fixed-term third-party funded project.

Your tasks:

The Institute of Chemical Technology at TU Bergakademie Freiberg is pan-European leading in resource chemistry. We work on complex problems to realise the energy and resource turnaround and rank at a top position in the development of holistic processes for the recovery of primary and secondary resources. The zero-waste concept is key part of our research to further integrate this into industrial processes. Examples for economic successful processes include Li, REE, In, Ge, Sn and others.

In this context we are seeking an outstanding qualified research assistant - pre-doc for the project "ReVive" for valorisation of end-of-life aluminium ion batteries in the production of geopolymers.

The aim of the project is the utilisation of secondary raw materials of aluminium ion batteries and their electrolytes as feed materials for geopolymer building blocks. The already established use of secondary raw materials in the production of geopolymer building blocks will be expanded and applied towards this new raw materials stream.

What we expect from you:

- Academic degree in chemistry or chemical process engineering
- Excitement for the development of chemical processes for a human and climate suitable future
- Extensive experience in chemical analytics (IC-, ICP-MS/OES, AAS, XRF, XRD), as well as characterisation of construction material (crushing test, leachability)
- independent work in a lab is required
- Excellent English (and preferably also German) language skills, both written and spoken
- Experience in setting-up and operating lab and technical scale equipment as well as process monitoring

What you can expect from us:

- Work at a family-friendly university
- Remuneration in accordance with the provisions of the collective agreement for the public sector of the federal states, depending on personal qualifications
- Attractive fringe benefits; Job-Ticket
- Training by long-standing employees
- Opportunities for further training
- Opportunity to attain further academic qualifications

Applicants must meet the employment requirements for fixed-term employment contracts in accordance with the WissZeitVG (German Academic Fixed-Term Contract Act).

Your application

Please send your application with a cover letter/letter of motivation, resume, copies of all relevant certificates, quoting the **position number (159-E/2026)** by **25.10.2026** to:

bewerbungen@tu-freiberg.de

or:

TU Bergakademie Freiberg
Dezernat Personalangelegenheiten
09596 Freiberg



For further information, please contact Mr. Prof. Dr. Martin Bertau

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Mr. Dr. Ben Ebersbach

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Severely disabled persons or persons of equivalent status will be given preferential consideration if they have the same qualifications, performance, and abilities. To ensure appropriate consideration, please include proof of severe disability/equivalence with your application documents. TU Berg-akademie Freiberg strives to increase the proportion of women in teaching and research and is therefore particularly interested in applications from qualified women.