

At the TU Bergakademie Freiberg, Faculty of Materials Science and Technology, Institute of Nanoscale and Biobased Materials, a position is available from 01.11.2024 or later as a

Researcher (m/f/d) - reference number 138-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: 0,75 FTE (30 hours/week)
Time limit: 3 years

The Green Functional Materials group is searching for a highly motivated materials scientist or chemist for pursuing the PhD within the "Filtrolution" project (BMBF "NanoMatFutur" group, ref: 03XP0517). The aim of the project is to fabricate reactive membranes based on biobased polymers and nanomaterials, like nanocellulose or lignin nanoparticles, for applications in water remediation, biomedicine and catalysis. One key responsibility will be the introduction of reactive sites (e.g., enzymes, stimuli-responsive groups) into the biobased membrane matrix and the stabilization of the membranes by crosslinking.

The Green Functional Materials group is a young (established in 2023) and independent team affiliated to the Institute of Nanoscale and Biobased Materials. We are working at the interface between biobased polymers, their chemistry and materials properties and fabrication. More info on our website: <https://tu-freiberg.de/en/esm/green-functional-materials-group>.

These are your tasks:

- Implementation and conduction of the project research
- Dissemination and publication of the project results
- Transfer and network activities
- Adviser of undergraduate thesis and limited teaching tasks

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, depending on personal requirements
- Attractive fringe benefits, e.g. capital-forming benefits (VL), company pension scheme (VBL), offers within the framework of university health management, discounted ticket for local public transport (job ticket)
- Induction through experienced colleagues, career development programs offered especially to PhD students by the TUBAF Graduate and Research Academy (<https://tu-freiberg.de/en/grafa>)

What we expect from you:

- A university diploma or master in materials sciences, chemistry or related fields
- Scientific profile of the position: biopolymers or bionanomaterials; membrane fabrication and characterization; chemical modification and molecular analysis; structure-property relationships of the prepared membrane materials and their performance
- Good written and spoken English and to work in an international scientific team is expected
- Knowledge in German language is a plus

For further information please contact the group leader Dr. Katja Heise.

E-Mail: Katja.Heise@esm.tu-freiberg.de

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 or equivalent applicants (m/f/d) with equal aptitude, performance and qualifications will be given preferential consideration. 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 (138-E/2024) by 02.08.2024** (the postmark of the ZPS of the TU Bergakademie Freiberg applies) to:

**TU Bergakademie Freiberg - Dezernat für Personalangelegenheiten - 09596 Freiberg or
via e-mail: 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: <http://tu-freiberg.de/wirtschaft/karriere/stellenausschreibungen>.