

At the Faculty of Geosciences, Geoengineering and Mining, Institute of Geophysics and Geoinformatics, Geomathematics and Geoinformatics Research Group, a position as

**Research Associate (m/f/d)
(Doctoral Researcher) – Reference Number 149-E/2025**



is to be filled as soon as possible within the framework of a third-party funded project.

Remuneration: Pay grade 13 TV-L
Working hours: 0.75 FTE (30 hours per week)
Time limit: 30 months

We are a strongly mathematics-oriented research group working in a distinguished geoscientific environment. Our research focuses on the mathematical analysis of various (often potential-theory-related) geoscientific problems and the development of corresponding numerical methods.

Your tasks

- Conduct research on the analysis and development of mathematical and numerical methods for micromagnetic tomography (the combination of scanning magnetic microscopy and microCT in paleomagnetism)
- Implement and apply the developed methods
- Publish and present results at relevant conferences and in scientific journals

What you can expect from us:

- Work at a family-friendly university with flexible working hours
- Remuneration according to the Collective Agreement for the Public Service of the German States (TV-L), depending on personal qualifications
- Attractive additional benefits, e.g. capital-forming benefits (VL), occupational pension scheme (VBL), health management program, and a discounted public transport ticket ("Job Ticket")
- Opportunities for professional development and further training

We expect you to have:

- University Master's or Diploma degree in Applied Mathematics or a related discipline
- In-depth experience in at least one of the following areas: Inverse Problems, Partial Differential Equations, Numerical and Approximation Methods, Fourier Analysis
- Strong interest in geoscientific applications and interdisciplinary research
- Very good command of German or English, both written and spoken

For further information, please contact: Prof. Dr. Christian Gerhards
(E-mail: christian.gerhards@geophysik.tu-freiberg.de, Tel.: +49 3731 39 2880
<https://tu-freiberg.de/en/geophysics/ag-geomathematik-und-geoinformatik>)

Applicants must meet the requirements for fixed-term employment according to the German Academic Fixed-Term Contract Act (WissZeitVG). Severely disabled persons and those with equivalent status (m/f/d) will be given preference in cases of equal suitability, qualifications, and professional performance. In order to ensure appropriate consideration, please include proof of disability or equivalent status with your application documents. The TU Bergakademie Freiberg aims to increase the proportion of women in teaching and research and therefore expressly encourages applications from qualified female candidates.

Please send your application, including the usual documents and quoting the **reference number 149-E/2025**, by **23 November 2025** (date of receipt at the Central Mail Office of TU Bergakademie Freiberg) to:

TU Bergakademie Freiberg – Dezernat für Personalangelegenheiten - 09599 Freiberg
or by e-mail to: bewerbungen@tu-freiberg.de

Travel expenses related to the interview cannot be reimbursed. TU Bergakademie Freiberg is also seeking staff in a variety of disciplines. Further information is available at: <https://tu-freiberg.de/stellenangebote>