

At the Faculty of Geosciences, Geotechnics and Mining of the TU Bergakademie Freiberg, Institute of Geotechnics, Head of Soil Mechanics and Foundation Engineering, the following position as part of a third-party funded project is to be at the earliest possible time

**Research assistant (m/f/d) „ Computational Geomechanics and Uncertainty“
reference number 34-E/2025**



Remuneration: Pay group 13 TV-L
Scope of position: 1,0 FTE (full time; This job can also be carried out as a part-time position)
Time limit: 36 months

Join our team of researchers from universities, research centers, and companies to further develop numerical methods for subsurface exploration and simulation while taking uncertainties and spatial variability into account.

These are your tasks:

You will expand numerical methods by incorporating spatial variability and other uncertainties in geotechnical applications, addressing both direct and indirect methods of subsurface exploration as well as geotechnical safety assessments. You will also strengthen our “THM-coupled Simulations” team, focusing on constitutive modeling of the inelastic behavior of geomaterials. In doing so, you will contribute to the advancement of the scientific open-source simulation software OpenGeoSys. Your work is integrated into various collaborative projects involving national and international partner organizations, and you will therefore be expected to coordinate your efforts with these partners. You will present your findings at international conferences and publish them in relevant international journals.

What you can expect from us:

- Work 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.
- Attractive fringe benefits, e.g. capital-forming benefits (VL), company pension scheme (VBL) Health management.
- Induction training by long-term employees.
- Further training opportunities

What we expect from you:

- University master's or diploma degree in engineering sciences with a focus on simulation, material modeling, uncertainty quantification
- You have knowledge in continuum mechanics and material modeling, in numerical methods and in the description of spatial variability (e.g. using random fields)
- Proven programming skills round off your professional profile
- You work scientifically-methodically, problem-solution-oriented and are characterized by a high degree of commitment and personal responsibility
- You speak and write English fluently. German skills are an advantage
- You are willing to present project results at national and international conferences
- You enjoy communicating with colleagues from various disciplines

**For further information please contact Univ.-Prof. Dr. Nagel,
E-Mail: thomas.nagel@ifgt.tu-freiberg.de.**

Applicants (m/f/d) must fulfil the recruitment requirements for the conclusion of employment contracts for a fixed term in accordance with the WissZeitVG. Applicants (m/f/d) with severe disabilities or equivalent 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 the usual documents and stating the advertisement **reference number (34-E/2025) by 31.03.2025** (the postmark of the ZPS of the TU Bergakademie Freiberg applies) to:

**TU Bergakademie Freiberg - Department of Human Resources - 09596 Freiberg
or by 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 scientific staff from various disciplines. Staff from various disciplines. Information at: <https://tu-freiberg.de/wirtschaft/karriere/stellenausschreibungen>