



At TU Bergakademie Freiberg, Faculty of Mechanical, Process and Energy Engineering, Institute of Mechanics and Fluid Dynamics, the professorship of Applied Mechanics – Solid Mechanics is seeking applications for a temporary position as



Postdoctoral Research Assistant (m/f/d) – Reference Number 257-E/2022

to begin 01.01.2023. This research project is part of the larger collaborative initiative "HTm: High-Temperature Electrolysis Modules – Ready for Gigawatt", which builds on the technology platform H₂Giga funded by the Federal Ministry of Education and Research (BMWF). For additional information see: <https://www.wasserstoff-leitprojekte.de/leitprojekte/h2giga>

Pay grade: E13 TV-L

Hours: full-time

Contract type: 24 months

Job description:

Relevant work package:

"Hotbox development of a large-scale HTE module (generation 3)", subtask: "Assessment of design decisions under consideration of specific operating conditions", with a particular focus on helping to establish a materials-oriented design process for the new modules. This involves the development of geometrical sub- and full-scale simulation models of the hotbox and its components. ("digital twins").

All tasks are conducted in close coordination with the project partners. Deliverables include project reports and the presentation of the project results within the research consortium and at conferences as well as their publication in high-quality journals.

What you can expect from us:

- A position in an active and supportive research group at a family-friendly university with flexible working hours
- Salary in accordance with the collective labor agreement for civil servants of the German states
- Support from experienced colleagues for lab work, scientific publications and participation in conferences
- Possibility to take part in the University's career development programs

What we expect from you:

- A higher-than-average university diploma or M.Sc. degree (or equivalent) in mechanical engineering, materials science, physics, applied mathematics or related fields
- Fluency in spoken and written English and/or German
- A strong background and practical experience in solid mechanics, FE-analysis, and material modeling

For more information, please contact Prof. Kiefer (email: Bjoern.Kiefer@imfd.tu-freiberg.de).

The applicant must meet the hiring requirements for fixed-term employment contracts according to the WissZeitVG. Applicants with disabilities will receive preferential consideration, provided they possess equal qualifications. For consideration, we ask you to submit proof of your disabled status together with your application documents. TU Bergakademie is committed to increasing the number of women in teaching and research positions, hence qualified female candidates are especially encouraged to apply.

Written applications, including a CV, motivation letter and copies of all relevant qualification documents (certificates, diplomas), should be submitted before **13 October 2022** stating **reference number (257-E/2022)** to the following address:

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

Your application documents will not be returned, please only submit copies. Candidates will not be compensated for any costs incurred for attending interviews. TU Bergakademie Freiberg is always looking for scientific personnel from various disciplines. Further information can be found at <http://tu-freiberg.de/wirtschaft/karriere/stellenausschreibungen>