The Faculty of Mechanical, Process and Energy Engineering, Institute of Mechanics and Fluid Dynamics, Chair of Applied Mechanics – Solid Mechanics is seeking applications for three temporary positions as

**Research Assistant (m/f/d) – Reference Number 104-E/2021**

to be filled as soon as possible, provided funding is granted. 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 future Information: https://www.wasserstoff-leitprojekte.de/leitprojekte/h2giga

**Pay grade:** E13 TV-L  
**Hours:** each full-time  
**Contract type:** 46 months

**Job description:**

i) Work package: “Concept and pre-development of large-scale HTEL modules (generation 3): Corrosion, strength and durability investigations of structural materials”.

ii) Work package: “Hotbox development of a large-scale HTE module (generation 3)”, with a particular focus on materials selection.

iii) Work package: “Hotbox development of a large-scale HTE module (generation 3)”, with a particular focus on helping to establish a materials-oriented design process for the new modules.

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 labour 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 programmes

**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 FE-analysis, material modeling and/or materials characterization

The willingness to pursue a doctoral degree is assumed. At least one of the positions can be filled with a postdoctoral researcher (m/f/d), whose responsibilities would include the coordination of the project team.

For future 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 qualifications documents (certificates, diplomas), should be submitted before 25 June 2021 stating reference number (104-E/2021) to the following address:

TU Bergakademie Freiberg, Dezernat für Personalangelegenheiten, 09596 Freiberg or 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