

The Faculty of Mechanical, Process and Energy Engineering, Institute for Machine Elements, Design and Manufacturing, seeks to fill the positions of **one**

**research assistant/ PhD student (m/f/d) – tender number 152-E/2023**

to be filled on a temporary basis (for 3 years with the option of extra time).

**Salary:** max. Pay group 13 TV-L  
**Job size:** 100 % (Part-time possible, if applicable)  
**Start of work:** October 1<sup>st</sup> (other dates are also possible)

**Your tasks are:**

The work includes the self-reliant research of the fatigue behavior of bolt joints in a public founded project:

- Motivation to do a PhD thesis
- Experimental Investigations of bolt joints using fatigue and tribological test rigs
- Development of novel test methods and design of novel test setups
- Development of finite element models for the simulation of the tribological and fatigue loading
- Presentation and publication of research results
- Supervision of students (during project or master thesis)

**What we offer:**

- Possibility to do a PhD thesis
- Working at a family-friendly university with flexible working hours and mobile work if necessary
- Remuneration according to the provisions of the collective agreement for the public service (TV-L) in accordance with personal requirements
- Attractive fringe benefits, e.g. capital-forming benefits (VL), company pension scheme (VBL), health management, discounted ticket for local public transport "Job-Ticket".
- Induction by experienced employees
- Individual development and training opportunities

**What we expect from you:**

- Master's degree or diploma in mechanical engineering or similar field of study
- Knowledge in finite element modelling, material science and design
- Good English and (basic) German language skills (verbal and written) and readiness for further qualification

**For further questions on the content of the individual topics, please contact Dr. Robert Szlosarek (robert.szlosarek@imkf.tu-freiberg.de, 03731 39-3653).**

Severely disabled or equivalent applicants (m/f/d) will be given preferential consideration in the event of equal suitability, performance and qualifications. For appropriate consideration, we ask that proof of the severe disability/ equality is attached to the 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, quoting the **tender code (152-E/2023)**, by **29.08.2023** (the postmark of the ZPS of the TU Bergakademie Freiberg applies) to:

**TU Bergakademie Freiberg - Dezernat für Personalangelegenheiten - 09596 Freiberg**  
**mail: [bewerbungen@tu-freiberg.de](mailto:bewerbungen@tu-freiberg.de)**

Your application materials will not be returned; please submit copies only. Interview costs will not be covered. The TU Bergakademie Freiberg is also looking for scientific personnel from different disciplines. Information under:

<http://tu-freiberg.de>