

In the heart of Saxony, the TU Bergakademie Freiberg has a lot to offer, especially for excellent young talents. At the Faculty of Mechanical, Process and Energy Engineering at the TU Bergakademie Freiberg the following position is available at the earliest possible date

### **Junior Professorship for Experimental Thermodynamics of Process Engineering (W1) position number: 240-E/2023**

The research area of this interdisciplinary professorship includes, besides theoretical considerations, mainly experimental research on and about process engineering processes, process variables and interaction parameters as well as thermodynamic properties, especially of or involving gases.

An excellent personality is sought - preferably with a field of work in one of these areas:

- Sorption measurement techniques and sorption processes
- Material properties of gases and interaction parameters between gases and solids/liquids in the high-pressure and/or high-temperature range
- Gas concentration determination under extreme conditions
- Measurement technology development in engineering thermodynamics and process engineering

The ability to represent the field in research and teaching in the required breadth and depth is expected, as well as subject-specific publications in peer-reviewed journals. Experience in acquiring third-party funding, abroad, in the area of personnel management and international research is desirable. Furthermore, impulses for the further profiling of the faculty in the field of experimental thermodynamics are explicitly desired, among others in large-scale research projects. The faculty attaches great importance to high-quality teaching with a close supervisory relationship to the students. Willingness to teach courses in German and English is expected.

The call for applications is aimed at young scientists in the early stages of their careers. Applicants should have worked scientifically outside the TU Bergakademie Freiberg for at least two years. The position will be filled as a W1 temporary civil servant position for three years and will be extended for another three years after a positive interim evaluation. As research achievements during this time we expect publications in peer-reviewed journals, success in obtaining third-party funding, the establishment or continuation of scientific collaborations and the promotion of young scientists.

You fulfill the general requirements for appointment according to § 64 of the "Sächsisches Hochschulgesetz" (Higher Education Act of Saxony), dated May 31, 2023. Essential requirements are a university degree and a completed doctorate. The university supports the junior professors by providing advice, networking, further training and mentoring. Together with the Hochschuldidaktisches Zentrum Sachsen (HDS), the GraFA offers advanced training courses in higher education didactics tailored to the professors. Severely disabled or equivalent applicants (m/f/d) will be given preferential consideration in the event of equal suitability. For appropriate consideration, we ask that proof of the severe disability/equality is attached to the application documents. The TU Bergakademie Freiberg is a family-friendly university and provides support in the provision of childcare facilities as well as in the placement of appropriate jobs in the region for life partners (m/f/d) or spouses (m/f/d) (dual career couples). It strives to increase the proportion of women in teaching and research. Qualified female scientists are therefore encouraged to apply.

Applications, stating the advertisement reference number (**240-E/2023**), should be sent with a curriculum vitae, a description of academic career, a list of publications with copies of the most important publications, a list of courses taught, the results of evaluations carried out in recent years, a certified copy of the highest academic degree, and a cover letter indicating your motivation for applying, as well as a research and teaching concept, until **January 7, 2024** to:

**TU Bergakademie Freiberg - Human Resources Department - 09596 Freiberg  
preferably via email: [bewerbungen@tu-freiberg.de](mailto:bewerbungen@tu-freiberg.de).**

**If you have any questions, please contact the chair person of the selection committee,  
Prof. Dr.-Ing. habil. Andreas Bräuer (E-Mail: [andreas.braeuer@tu-freiberg.de](mailto:andreas.braeuer@tu-freiberg.de)).**

Please note that your application documents will not be returned. Please submit copies of your certificates only. Travel and other costs for interviews will not be reimbursed.