

The TU Bergakademie Freiberg, Faculty of Chemistry and Physics, Institute of Physical Chemistry is seeking to fill the position of

Research assistant (m/f/d) - Tender reference number 59-E/2024

to be filled for a fixed term.

Remuneration: Pay group 13 TV-L
Scope of employment: 0.66 FTE (26.5 hours/week)
Time limit: 3 years



The Institute of Physical Chemistry conducts research in the field of (high-pressure) hydrogen storage materials. The aim of the project is to develop new hydrogen storage materials based on the fundamental understanding of complex metal hydrides. A particular focus will be on materials with an equilibrium pressure of over 200 bar.

These are your tasks:

- Carrying out research work as part of the exploration and investigation of metal hydride systems with high adsorption/desorption pressure
- Carrying out gas absorption measurements using Sieverts apparatus
- Carrying out high pressure measurements
- Carrying out chemical syntheses (including mechanochemical syntheses)
- Carrying out accompanying measurements for substance characterization (XRD, TG-DSC, FTIR etc.)
- Coordination of activities with other research partners
- Writing reports and publications
- The possibility of a doctorate is given

What you can expect from us:

- Working 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, depending on personal requirements
- Attractive fringe benefits, e.g. capital-forming benefits (VL), company pension scheme (VBL),
- Health management; further training opportunities; discounted ticket for local public transport "Jobticket"

What we expect from you:

- University diploma or master's degree in chemistry, applied natural science, process engineering, physics, mineralogy, or a related subject. A specialization in physical chemistry is an advantage
- A high degree of initiative, self-organization, ability to work in a team and ability to work under pressure
- Enthusiasm for scientific work
- willingness to familiarize yourself with new topics and
- good written and spoken German and English skills

**For further information please contact Prof. Dr. Mertens (Tel.: 03731 39-3737;
e-mail: Florian.Mertens@chemie.tu-freiberg.de).**

Applicants (m/f/d) must fulfill the recruitment requirements for the conclusion of employment contracts for a fixed term in accordance with the WissZeitVG. Severely disabled or equivalent applicants (m/f/d) with equal aptitude, performance and qualifications will be given preferential consideration. 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 job advertisement **reference number (59/2024) by 05.05.2024** (the postmark of the ZPS of the TU Bergakademie Freiberg applies) to

**TU Bergakademie Freiberg - Dezernat für Personalangelegenheiten - 09596 Freiberg oder
per E-Mail: bewerbungen@tu-freiberg.de**

The costs of the interview will not be covered. The TU Bergakademie Freiberg is also looking for staff from various disciplines. Further information can be found at: <http://tu-freiberg.de>.