

The TU Bergakademie Freiberg, Faculty of Chemistry, Physics and Life Sciences, Institute of Physical Chemistry has an immediate vacancy for a

Research assistant (m/f/d) - Tender reference number 146-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 porous metal-organic frameworks (MOFs). The aim of the project is to obtain MOFs or MOF modifications based on the fundamental understanding of coordination compounds, which have special applications in catalysis, sensor technology or electrochemistry. A particular focus will be on the production of water-stable MOF systems for investigations using atomic force microscopy.

These are your tasks:

- Carrying out research work as part of a research project on the synthesis and investigation of systems based on water-stable metal-organic frameworks
- Carrying out chemical syntheses of MOFs and MOF precursors
- Performance of atomic force microscopy measurements
- Carrying out accompanying measurements for material characterization (XRD, BET, TG-DSC, FTIR etc.)
- Involvement in teaching as TA (lab courses, seminars)
- Coordination of activities with the other project 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 English skills

**For further information please contact Prof. Dr. Mertens (Tel.: 03731 39-3737;
e-mail: Paula.Trautzold@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 (146E/2024) by 11.08.2024** (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>.