

Research Assistant (m/f/d)

Job offer reference number 91-E/2026

Faculty of Mechanical, Process and Energy Engineering

Scope of position: 0,75 or 1,0 FTE (30 or 40 hours/week)
Time limit: 31.12.2028

Remuneration: pay group E13 TV-L
Start: at the earliest opportunity

TU Bergakademie is researching sustainable solutions to the global challenges of the 21st century. This includes sustainable and efficient production. At the Institute of Mechanical Process Engineering and Mineral Processing (MVTAT), research is being conducted on the digitalization of process engineering production processes. A model-based predictive control system is being developed to optimize a filtration process. The research project is being carried out in cooperation with the Technical University of Munich and is supported by an industry advisory board. Key research contributions in this context include experimental data from laboratory tests for calibrating the models and the final implementation of the control system at a pilot plant. The research builds on a previous project.

Your tasks

- Working on a research topic in the field of solid-liquid-separation/particle technology
- Further development and experimental research work on process control
- Online and offline acquisition of process data, correlation with particle properties and process parameters, development of structure-process relationships
- Process modelling - data evaluation - digitization

What we expect from you

- Above-average university degree or master's degree in process engineering, environmental engineering, chemical engineering, physics, applied natural sciences or comparable
- Knowledge of the basic processes of mechanical process engineering
- Interest in scientific work and further scientific training (e.g. doctoral degree)
- English language skills (verbal and written) / German language skills are desirable

What you can expect from us

- Working at a family-friendly university with flexible working hours
- Remuneration in accordance with TV-L with attractive fringe benefits (e.g. capital-forming benefits, VBL company pension scheme)
- Opportunities for professional and personal development
- Discounted ticket for local public transportation (Jobticket), diverse cultural, sporting and health offerings

Applicants (m/f/d) must meet the employment requirements for the conclusion of fixed-term employment contracts in accordance with the WissZeitVG (German Academic Fixed-Term Contract Act).

Your application

Please send your application with the usual documents, quoting the reference number (91-E/2026)

by 19 June 2026, preferably by email
to:

bewerbungen@tu-freiberg.de

or to:

TU Bergakademie Freiberg
Dezernat Personalangelegenheiten
09596 Freiberg



For further information please contact:

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Urs.Peuker@mvtat.tu-freiberg.de

Severely disabled persons or persons of equivalent status (m/f/d) will be given preferential consideration if they have the same qualifications, performance and abilities. Please enclose proof of this. The TU Bergakademie Freiberg specifically promotes the proportion of women and expressly invites qualified women to apply.