

At the TU Bergakademie Freiberg Faculty of Chemistry, Physics and Biosciences, Institute of Applied Physics, a position is available as a

Research Assistant (m/f/d) – reference number 1-E/2025

as part of a third-party funded project.



Pay grade: according to German pay grade E13 TV-L
Hours: 0,75 FTE (30 hours/week)
Contract type: 31.12.2027

The area of responsibility includes the scientific processing of a third-party funded project in the field of applied electro. The main focus of research at the Institute for Applied Physics at the TU Bergakademie Freiberg is the investigation and integration of new materials and semiconductors for the energy transition. The institute's expertise ranges from basic material characterization to the realization of complete semiconductor components in the central cleanroom laboratory of the TU Bergakademie Freiberg. In the third-party funded project "ENGAGE", work is being carried out in close cooperation with research institutions and industrial partners on the development of n-type based GaAs diodes. These components are intended to make energy conversion more efficient and sustainable.

Job description:

- Close cooperation in an industry-related research project to realize energy-efficient diodes based on n-type GaAs
- Development of wet-chemical cleaning and atomic layer deposition processes (ALD) in the central clean room laboratory of the TU Bergakademie Freiberg
- Integration of the developed processes into the production of diodes
- Electrical characterization of semiconductor devices
- Presentation of the results at national and international conferences and publication in peer-reviewed journals

What you can expect from us:

- A varied and responsible job in the laboratories of the Institute of Applied Physics; excellent research infrastructure; integration of your research work into a scientific network
- Working at a family-friendly university with flexible working hours
- Remuneration according to the provisions of the collective agreement for the public service of the German federal states in accordance with the 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"
- further training opportunities
- Active support for your qualification

What we expect from you:

- university diploma or master's degree in the field of physics, semiconductor chemistry, materials science or Applied Natural Science (specialization in solid-state physics or photovoltaics and semiconductor technology)
- Knowledge and practical experience in semiconductor processing technology, in particular wet chemistry and chemical vapor deposition
- Willingness to pursue a further qualification
- Interdisciplinary collaboration, ability to work in a team, flexibility and working in a clean room
- Independent, goal-oriented and structured way of working as well as a high level of personal commitment
- Good English and German language skills, both written and spoken

For further questions on the content of the individual topics, please contact Prof. Johannes Heitmann,
Phone: 03731/39-4002; E-Mail: sekretariat.iap@physik.tu-freiberg.de
Please also see our website: <https://tu-freiberg.de/fakultaet2/angph>

The applicant (m/f/d) must meet the hiring requirements for a fixed-term contract according to the WissZeitVG. Applicants with disabilities will receive preferential consideration, providing they possess equal qualification. For consideration, we ask you to submit proof of your disabled status together with your application documents. TU Bergakademie Freiberg is committed to increase the number of women in teaching and research positions, hence qualified female candidates are especially encouraged to apply.

Please send your application with a cover letter/motivation letter, CV, copies of all relevant certificates, quoting the **job advertisement reference number (1-E/2025) by 07.02.2025** (the postmark of the ZPS of the TU Bergakademie Freiberg applies) to:

**TU Bergakademie Freiberg, Dezernat für Personalangelegenheiten, 09596 Freiberg
or by e-mail to: bewerbungen@tu-freiberg.de**

Your application documents will not be returned, please submit copies only. Interview costs will not be covered. The TU Bergakademie Freiberg is also looking for staff from various disciplines. Further information can be found at: <https://tu-freiberg.de/stellenangebote>