

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 2-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 main focus of research at the Institute for Applied Physics at the TU Bergakademie Freiberg is the investigation and integration of new materials for semiconductor devices. 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. Ferroelectric gate dielectrics enable the development of new areas of application in the field of non-volatile memory and neuromorphic systems. In the third-party funded project "ReFinE", research is being carried out together with national and international partners on the development of such dielectrics for ferroelectric FinFETs.

Job description:

- Working on an international research project targeting novel gate dielectrics for FinFET technology
- Development of atomic layer deposition and etching processes (ALD/ALE) at the central clean room laboratory of TU Bergakademie Freiberg
- Electrical characterization of semiconductor devices
- Presentation of results at national and international conferences and preparation of scientific papers for 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, electrical engineering, materials science or Applied Natural Science (specialization in solid-state physics or photovoltaics and semiconductor technology)
- Advanced knowledge in solid-state and physics
- Knowledge and practical experience in and semiconductor device fabrication and electrical characterization
- 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 (2-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>