

(W2) Professorship in „Applied Electronics“

position number 50-E/2026

Faculty of Mechanical, Process and Energy Engineering

Start: at the earliest possible date

The professorship is part of the profiling initiative 2025 'Engineering of Cyber Physical Systems'.

(<https://tu-freiberg.de/profilierungsinitiative-2025>).

We are looking for a nationally and internationally visible person with an outstanding scientific track record who can represent the core areas of applied electronics in research and teaching. Experience in independently acquiring and conducting research projects is desirable. Possible research focuses of the professorship lie in the following areas, at least two of which should be covered:

- Electronics for Industry 4.0/5.0, including communication
- Real-time capable and energy-efficient systems
- Communication electronics
- Embedded machine learning
- Sensor integration and electronic interfaces
- Sustainability and reliability of electronic systems, and
- Modern design and simulation methods for the above areas, including application-oriented design of integrated circuits

The aim is to conduct application-oriented, interdisciplinary research with high relevance for networked, autonomous, and intelligent technical systems. The faculty attaches particular importance to applicants contributing to the further development of their own field of expertise while also demonstrating a particular ability and willingness to connect with the faculty's research priorities and related fields in the areas of process engineering, mechanical engineering, and materials science. Initiatives to further raise the profile of the field of "Engineering of Cyber Physical Systems" are expected, including through participation in and initiation of large-scale research projects. The research concept should outline the potential for networking within the university and the contribution to further development and cooperation within the profiling initiative. Teaching responsibilities related to basic training are in the areas of analog and digital electronics, design and manufacture of electronic systems, and hardware-related programming. In addition, you will be required to supervise bachelor's, master's, diploma, and doctoral theses and offer courses related to your own research. Teaching must be conducted in German and/or English and in digital formats in accordance with the requirements of the respective degree programs. Excellent German and English language skills are required. The Faculty of Mechanical, Process and Energy Engineering is interested in applicants (m/f/d) who can demonstrate high-level publications in peer-reviewed journals as well as independent teaching experience and experience in acquiring third-party funding and project management. Participation and close cooperation with the other professorships in the profiling initiative to establish a new degree program is expected.

Applications

stating the advertisement reference number (50-E/2026), should be sent with a curriculum vitae, a description of academic career, a list of publications with copies of the most important publications, a list of courses taught, the results of evaluations carried out in recent years, a certified copy of the highest academic degree, and a cover letter indicating your motivation for applying, as well as a research and teaching concept, by **April 20, 2026** to the:

bewerbungen@tu-freiberg.de

or:

TU Bergakademie Freiberg
Dezernat Personalangelegenheiten
09596 Freiberg



If you have any questions, please contact the dean:

Prof. Dr. Ing. habil. Andreas Bräuer
(dekanat@dekanat4.tu-freiberg.de).

Please note that your application documents will not be returned. Please submit copies of your certificates only. Travel and other costs for interviews will not be reimbursed.

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Candidates fulfill the general requirements for appointment according to § 59 of the “Sächsisches Hochschulgesetz” (Higher Education Act of Saxony), dated May 31, 2023, in its currently valid and applicable version.

A relevant doctorate and habilitation or equivalent qualifications are mandatory, as are pedagogical aptitude and knowledge of university teaching methods. Severely disabled persons or those of equivalent status (m/f/d) will be given preferential consideration if equally qualified. Appropriate proof must be included with the application documents.

TUBAF is a family-friendly university and provides support in arranging childcare and finding suitable jobs in the region for partners (m/f/d) (dual career). We are striving to increase the proportion of women in teaching and research. Qualified female scientists are therefore encouraged to apply.

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