

The Faculty of Mechanical, Process and Energy Engineering at TU Bergakademie Freiberg is seeking to fill a

(W3) professorship for Automated and Autonomous Systems
position number: 250-E/2023

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 (m/f/d) with outstanding scientific credentials who can represent the core areas of automation engineering in research and teaching, with a focus also on AI-based Autonomous Systems.

Possible research interests include:

- Distributed automation in the transition from Industry 4.0 to 5.0.
- AI-based autonomous systems, especially robotics and e-mobility
- Cyber physical systems including cyber security
- Automation in energy technology
- Automation in manufacturing and logistics
- Advanced embedded systems and object oriented real-time control for applications in mechanical, process and geotechnical engineering
- Network, bus and communication structures

A close cooperation with the other professorships of the profiling initiative 2025 'Engineering of Cyber Physical Systems' is expected. In addition, interdisciplinary cooperations are to be realized especially with the institutes of TUBAF, which are also active in the mentioned research areas.

The teaching tasks concern courses especially in the field of automation technology for the engineering courses of the Technische Universität Bergakademie Freiberg. In addition, student theses and doctoral dissertations are to be supervised and courses are to be offered in connection with the university's own research. Teaching is to be done in German and/or English according to the requirements of the respective courses of study.

we seek a scientists' personality, who feels motivated to lead a transdisciplinary working group and to maintain the necessary bandwidth in teaching. The Faculty of Mechanical Engineering, Process and Energy Engineering is interested in applicants (m/f/d) who can demonstrate high-ranking publications in refereed journals as well as independent teaching experience and experience in acquiring third-party funding and project management. Very good knowledge of German and English as well as the willingness to teach in German and English are required.

You 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.

The prerequisites are a degree, the special qualification for relevant scientific work (usually proven by a doctorate), habilitation or habilitation-equivalent achievements as well as pedagogical aptitude and university didactic knowledge. Severely disabled or equivalent applicants (m/f/d) will be given preferential consideration in the event of equal suitability. For appropriate consideration, we ask that proof of the severe disability/equality be attached to the application documents. The TU Bergakademie Freiberg is a family-friendly and provides support in the provision of childcare facilities as well as in the placement of appropriate jobs in the region for life partners (m/f/d) or spouses (m/f/d) (dual career couples). It strives to increase the proportion of women in teaching and research. Qualified female scientists are therefore invited to apply.

Applications, stating the advertisement **position number (250-E/2023)**, 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 showing your motivation for applying and a research and teaching concept, by February 29, 2024 to the:

TU Bergakademie Freiberg - Human Resources Department - 09596 Freiberg
preferably via email: bewerbungen@tu-freiberg.de

If you have any questions, please contact the chairman of the appointment committee:
Prof. Dr. Ing. habil. Rüdiger Schwarze (e-mail: ruediger.schwarze@imfd.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.