Located in the heart of Saxony, TU Bergakademie Freiberg has much to offer, especially for up-and-coming talent. At the Faculty of Mechanical, Process and Energy Engineering at TU Bergakademie Freiberg, the

**Tenure-Track Professorship for Measurement, Sensor and Embedded Systems**

(W1 with tenure track to W3) (171/2020)

is to be filled at the earliest possible date. The research area of this interdisciplinary professorship comprises architecture, design and experimental validation of embedded systems for sensor and measurement technology; based on FPGA, DSP and multi/manycore processors, accelerators as well as inclusion of their intelligent energy-efficient functions. We are looking for a qualified professional with a preferred focus on one of these areas:

- Position and distance determination for autonomous driving and driving support systems for cars, pedelecs and networked mobile machines,
- Intelligent measuring systems in mechanical and plant engineering, especially in additive production and process engineering,
- Embedded systems, architecture and hardware for measurement and sensor technology,
- Scalable sensor systems for autonomous robots, machines and systems,
- Algorithms of sensor technology and networks,
- NVH (Noise, Vibration, Harshness): Experimental modal analysis, body and airborne sound measurements, psychoacoustics

We expect the successful candidate to be able to both represent the subject area in research and teaching to the necessary quality and detail, and to produce specialist publications in peer-reviewed academic journals. Experience in attracting third-party funds, in human resources management and in international research with related familiarity is desirable. Successful acquisition of third-party funds, establishment of new and continuation of existing academic collaborations is just as much expected as the support of junior academics.

We explicitly hope for impulses to further profiling the faculty in the field of the denomination, including those related to large-scale research projects. The Faculty believes in high-quality teaching with close supervisory relationships with students. We expect candidates to be able to hold classes in German and in English.

As part of the Bund-Länder-Program, the professorship offer is directed at junior academics (Post-Docs). The invitation therefore aims at early stage researchers. Applicants are expected to have at least two years’ experience working in academia outside of TU Bergakademie Freiberg. The position will initially be granted as W1 position with civil servant status for three years, and extended by another three years after positive interim appraisal. Following successful tenure evaluation, the candidate will be appointed to civil servant status on permanent basis in the W3 salary bracket – without renewed application procedures (Tenure track). The applicant must meet the requirements of Section 63 of the Saxon Higher Education Autonomy Act (Sächsisches Hochschulfreiheitsgesetz – SächsHSFG) in the currently applicable version. Section 59 para. 2 and Section 69 para. 3 of the SächsHSFG apply.

The university supports tenure-track professors through consultation, networking, training and mentoring. Our University Centre of Advanced Study and Research (GraFA) offers higher education didactic courses tailored to professors, jointly with the Higher Education Didactic Centre Saxony (HDS).

The TU Bergakademie Freiberg is a family-friendly university and gives support by providing childcare facilities and assisting spouses and partners in finding appropriate job positions in the region (dual career). TU Bergakademie is committed to increasing the proportion of women in teaching and research positions. Qualified female academics are therefore encouraged to apply. Applicants with severe disabilities will be given preferential consideration if equally qualified. The TU Bergakademie Freiberg pursues a style of teaching and research which will require the successful candidate to move his or her main residence to Freiberg or its immediate vicinity. The application documents must be submitted to

Technische Universität Bergakademie Freiberg, Dezernat für Personalangelegenheiten, Akademiestraße 6, 09599 Freiberg by 09/11/2020

If you have any further questions, please contact the chairman of the appointment board, Prof. Dr.-Ing. Tobias M. Fieback (fieback@td.tu-freiberg.de).