

The Brandenburg University of Technology Cottbus-Senftenberg (BTU) bundles top-level research and transfer at an international level, thereby creating an interdisciplinary innovation network and an excellent science and technology location. Together with its renowned partners, the BTU forms the Lausitz Science Network - an alliance of research institutions that together want to further develop the strengths of the science location Cottbus-Senftenberg and increase its visibility. Through innovative research and new teaching and learning formats, the BTU is shaping the future: with scientific findings and practice-relevant solutions, it is helping to shape the major issues of the future and transformation processes. In four profile lines - "Energy Transition and Decarbonization," "Health and Life Sciences," "Global Change and Transformation Processes," and "Artificial Intelligence and Sensor Technology" - it combines its strengths in teaching and research across institutes and faculties.

At its locations in Cottbus and Senftenberg, the BTU guarantees its students a challenging education, individual support and the opportunity to learn from and with each other with curiosity and openness. The BTU stands for an inspiring atmosphere of learning and research in a dialogical, democratic cooperation of all: The diversity of our faculty and students enables innovation and progress in Lusatia.

The Faculty of Mechanical Engineering, Electrical and Energy Systems invites applications for a

PROFESSORSHIP (W3)

Engineering Mechanics and Vibrations

(Technische Mechanik und Schwingungen)

commencing on
1 October 2025.

The professorship should represent the above-mentioned fields in research and teaching at mechanical engineering and in other degree programmes at the BTU, as well as perform teaching duties in the Bachelor's and Master's degree programmes in German and English. If there is no sufficient knowledge of German, the willingness to learn the German language as soon as possible is required, which ensures the cooperation in the management of the institute, the faculty and in university and non-university committees as well as the teaching of the Bachelor's degree programmes in German.

The professorship is located at the BTU Institute of Transport Engineering (IVT) focusing on research topics of the fields mechanical, aeronautical, and automotive engineering. Active contribution on multidisciplinary research activities is desired, in particular a collaboration with the Lausitz Center of Artificial Intelligence (LZKI) and the BTU Center for hybrid-electric and electric systems (CHESCO) is desired. Furthermore, collaboration with other professorships of the faculty and the university, in particular faculty 1, beyond the IVT is aspired.

We are looking for:

A nationally and internationally recognised personality with excellent expertise in the fields of engineering mechanics and dynamics proven by outstanding publications. Special didactical skills and teaching experience are required in the fields engineering mechanics, vibrations, as well as analysis and optimization of dynamic systems. Moreover, the future holder of the position is expected to look back on experiences in multi-body systems, the design of mechatronic systems, and vehicle dynamics.



The BTU carries the seal of quality of The German Association of University Professors and Lecturers (Deutscher Hochschulverband, in short DHV). She is thus honored for her fair and transparent negotiations on the appointment of new professors.

Your profile:

As a future professor, you can provide evidence of the following requirements in accordance with § 41 Para. 1 No. 1 to 4a Brandenburg Higher Education Act (BbgHG):

- a completed university degree (Mechanical Engineering, Aeronautical Engineering, Automotive engineering or similar),
- pedagogical aptitude,
- a special aptitude for academic work, as a rule through the outstanding quality of a doctorate, and
- a habilitation or additional academic achievements as an equivalent.

Furthermore, you have experience in the acquisition of third-party funding and in the implementation of third-party funded projects. Your research topics should be relevant to the DFG or comparable international research funding institutions.

Your university teaching experience enables excellent teaching for the subject area to be filled here. You have the ability to teach at all curricular levels from bachelor's to doctorate, to supervise theses and to support young academics. Your Knowledge and experience enable you to participate in academic self-administration and in raising the profile of the faculty.

We offer:

- fair and transparent appointment negotiations,
- attractive working conditions in a city with a high quality of life and in relative proximity to Berlin, Dresden and Leipzig,
- a dynamically developing research location,
- support in relocating to the immediate vicinity of your place of employment,
- comprehensive advice in the dual-career service and in the area of family orientation, and
- an attractive salary with a negotiable appointment benefit.

Other duties result from the requirements set by § 42 BbgHG in conjunction with § 3 BbgHG.

For further information please contact apl. Prof. Dr.-Ing. habil. Bernd Beirow, Tel. +49 (0)355 69 4872 / email: beirow@b-tu.de.

Please refer to §§ 41 paragraph 1 No 1 – 4a and 43 BbgHG for prerequisites and conditions of employment.

BTU is committed to equal opportunities and diversity and strives for a balanced gender ratio in all employee groups. Persons with a severe disability and their equals are given priority in the case of equal suitability.

As a family-oriented University, BTU offers a Dual Career Service.

Information on appointment management including the legal basis as well as the status of ongoing appointment procedures can be found at: <https://www.b-tu.de/en/university/career/professional-appointment-management>.

The application, including academic certificates, curriculum vitae, a list of publications, as well as proof of teaching experience, should be sent by e-mail in a single pdf file with max. 7 MB until 08.03.2024 to:

E-mail: fakultaet3+bewerbungen@b-tu.de

**Dekan der Fakultät Maschinenbau, Elektro- und Energiesysteme,
postal adress: BTU Cottbus - Senftenberg, Postfach 101344, 03013 Cottbus.**



The BTU carries the seal of quality of The German Association of University Professors and Lecturers (Deutscher Hochschulverband, in short DHV). She is thus honored for her fair and transparent negotiations on the appointment of new professors.

When sending your application by unencrypted e-mail, please be aware of the risks regarding the confidentiality and integrity of your application content and please also note the data protection information on the BTU website.



The BTU carries the seal of quality of The German Association of University Professors and Lecturers (Deutscher Hochschulverband, in short DHV). She is thus honored for her fair and transparent negotiations on the appointment of new professors.