

The **Brandenburg University of Technology Cottbus–Senftenberg (BTU)** is a research-oriented university that combines its role as the central university of Lusatia with a strong international perspective. It offers a combination of basic and application-oriented research with a focus on the environment, energy, materials, construction, health and information and communication technology.

The **Faculty of Mechanical Engineering, Electrical and Energy** of BTU Cottbus–Senftenberg, invites applications for a

PROFESSORSHIP

Automotive Engineering and Powertrains (w3)

commencing at the earliest opportunity.

We are looking for a scientifically outstanding personality, who represents the field in research and teaching. The Department of Automotive Engineering and Powertrains is the main contributor of the specialisation Transportation Engineering within the Mechanical Engineering bachelor's programme and of the specialisation Automotive and Powertrain Engineering within the Mechanical Engineering master's programme at the BTU Cottbus-Senftenberg.

The future position holder is expected to have:

- in-depth knowledge of vehicle development and vehicle dynamics, powertrain and environmental impacts,
- experience in management activities and budget responsibility, and excellent national and international networks in the automotive and supplier industry as well in the research community.

The future position holder should as well:

- further develop the department in the main areas of energy management of the entire vehicle as well as conventional and alternative drive systems (electric, hydrogen-based, regenerative energy sources),
- develop the topics of vehicle concepts and human-machine interfaces as well as other future-oriented topics,
- significantly expand simulations methods in the above-mentioned topics and take up topics such as digital prototype, digital twin, etc,
- be prepared for interdisciplinary cooperation, especially with the institutes and faculties of the BTU, and integrate the department into the university and non-university re-search centres for hybrid electric drives that are currently being established.

The incumbent will have access to exceptionally good experimental equipment, which will continue to be the basis for the interdisciplinary research work of the department. Experience in acquiring third-party funding and conducting application-oriented research with industrial companies as well as in basic research is required. The research topics in basic research should be relevant for the DFG or comparable international research funding institutions.

The willingness to offer teaching in other courses of the faculty or other faculties is required.

Lectures are primarily to be held in German, fluency in English is expected.

For further information please contact Prof. Dr. Heiko Schmidt, Tel. +49 (0)355 / 69 4874 (e-mail: heiko.schmidt@b-tu.de).

Other duties result from the requirements set by § 42 Brandenburgisches Hochschulgesetz (Higher Education Act of the State of Brandenburg - BbgHG) in conjunction with § 3 BbgHG. Please refer to §§ 41 paragraph 1 No 1 – 4a and 43 BbgHG for prerequisites and conditions of employment.

BTU Cottbus-Senftenberg is committed to equal opportunities and diversity and strives for a balanced gender ratio in all employee groups. Person 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-Services.

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 a max. 7 MB until **22.08.2022** to:

**Dean of the Faculty of Mechanical Engineering, Electrical and Energy
BTU Cottbus - Senftenberg, Postfach 101344, 03013 Cottbus**

Email: fakultaet3+bewerbungen@b-tu.de

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.