

The **Brandenburg University of Technology (BTU) Cottbus-Senftenberg** is a young university that is actively helping to shape the structural change in Lusatia to phase out lignite and is providing scientific support for transformation processes in many ways. In the coming decades, the region will be one of the most exciting real laboratories in Germany, from which groundbreaking development impulses are to emanate. Employment at the BTU therefore promises more than ever participation in development processes towards a sustainable and climate-friendly future.

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

PROFESSORSHIP

Joining and Welding Technology (w3) (Füge- und Schweißtechnik)

commencing at the earliest opportunity.

The position is in succession to the professorship of Joining and Welding Technology from Prof. Dr.-Ing. habil. Vesselin Michailov and in the assumption of leadership of the department of the same name. Active participation of the appointed head of the department in current and future projects on structural and energy change as well as close cooperation with the participating partners from research institutions and industry is expected. The willingness for interdisciplinary co-operation at the national and international levels as well as with the institutes and faculties of the BTU is required.

We are looking for a person with excellent scientific qualifications and management experience who represents the field of joining and welding technology in research and teaching. The future holder of the position is expected to further deepen the research with regard to the joining process chain starting from the requirements for the component, the base material, via tailor-made filler materials and joining processes through the characterization of joining nodes and components, among others for future-oriented energy and mobility technologies. In addition, the development and application of advanced simulation methods and artificial intelligence (AI) for the digitalization of the value chain are desirable.

She/he is expected to fulfil at least two of the following requirements:

- In-depth knowledge in the development and optimization of joining and welding processes, among others on the basis of arc and laser-based processes,
- Competences in the field of shape giving joining,
- Knowledge in the development and application of powder and wire welding consumables,
- Experience in the testing and design of joints and joined parts,
- Competences in modelling and calculation methods for the simulation of joining and welding processes and for the optimisation of joined parts as well as in the application of AI methods.

Applicants must provide evidence of previous achievements in fundamental research, e. g. by submitting applications for public funded projects (DFG, BMBF, EU...) and publications in peer-reviewed journals. The research topics in fundamental research should be relevant to the DFG or comparable international research funding institutions. In addition, experience in application-oriented research with industrial companies must be presented, e.g. by projects (AIF, ZIM...), joint publications, and patents. Successful acquisition of national and/or European third-party funding is expected. Networks in industry, academia and professional associations are useful.

In teaching, participation in the study courses in mechanical engineering and industrial engineering as well as participation in the development of the German and international study programs, in particular the new study program "Lightweight and Material Technology" is expected. Courses are also to be held in English.

For further information, please contact Prof. Holger Seidlitz, Tel. +49 (0)355 69-5001 / email: fg-leichtbau@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.



Die BTU trägt das Gütesiegel des Deutschen Hochschulverbandes (DHV). Sie wird damit für ihre fairen und transparenten Verhandlungen zur Berufung von neuen Professorinnen und Professoren ausgezeichnet.

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. Persons with a severe disability and their equals are given priority in the case of equal suitability.

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

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 **07.02.2023** to:

**Dean of the Faculty of Mechanical Engineering, Electrical and Energy Systems
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.



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