

The **Faculty of Mechanical Engineering, Electrical and Energy Systems** of Brandenburg University of Technology Cottbus–Senftenberg (BTU),

JUNIOR PROFESSORSHIP SHAPE-GIVING JOINING (W1) (with Tenure-Track-Option to W3-Professorship)

ist o be filled at the earliest possible date.

The junior professorship is an anticipatory professorship to succeed to the chair of Joining and Welding Technology (Prof. Vesselin Michailov). It is required that the applicant has an engineering focus in the field of joining and welding, in particular deposition welding, and she/he has proof of scientific research achievements.

The applicant should expand and further develop the existing research in the field of "Shape-giving Joining" and offer courses for students in this area. She/He should initially take over project leading in the field of ongoing research projects and organize their successful implementation. Active participation in the framework of the initiatives for structural and energy change in the region as well as close cooperation with the involved partners from industry and scientific partners is expected. The willingness for interdisciplinary national and international cooperation as well as cooperation with the institutes and faculties of the BTU, is required. Participation in innovative and future-oriented further development of German-language and international courses is expected.

The holder of the position should ideally develop and/or expand the following skills within the framework of the junior professorship:

- Expertise in joining and welding technology, including "Shape-giving Joining". In particular, a close link between material and technology expertise that serves as the basis for the targeted properties setting based on the metallurgical and microstructural mechanisms.
- Expertise in filler materials such as powder and cored wires
- Expertise in testing and design of welded joints and structures
- Expertise in simulation and optimization of welded joints and welding processes with regard to different requirements, among others lightweight construction

Candidates are required to provide in the application the previous achievements in fundamental research, e.g. proposals for publicly funded projects (DFG, BMBF, EU ...) and publications in peer-reviewed journals. In addition, experience in application-oriented research with industrial companies has to be proven e.g. through projects (AIF, ZIM ...), joint publications or patents. Courses must also be conducted in English. Experience in acquisition of third-party funds as well as in execution of third-party funded projects are expected. For further information contact:

Prof. Holger Seidlitz
P +49(0)355 69-5001
E fg-leichtbau@b-tu.de

Additional requirements derive from § 42 Brandenburgisches Hochschulgesetz (BbgHG) i. V. m. § 3 BbgHG.

The requirements and conditions for recruitment can be found in §§ 45 and 46 BbgHG. The time period of a full-time scientific activity between the last examination of the doctorate and application for the junior professorship may generally not exceed six years.

Candidates who meet the recruitment criteria for a university professorship in accordance with § 41 Abs. 1 Nr. 4a BbgHG cannot be considered in this selection procedure.

In accordance with § 46 BbgHG, junior professors are appointed as officials for a time period of up to four years. On condition of a positive interim evaluation, an extension to a maximum of six years shall be carried out. After successful probation during the junior professorship, there is the option in the framework of Tenure Track to transfer the above-mentioned W3-Professorship to the holder of the position after executing an appointment procedure.

The BTU is striving to increase the proportion of women in research and teaching and, therefore, appropriate applications are requested.

As a family-oriented university, the BTU offers supporting options for dual-career couples (Dual Career Service).

Candidates with a severe disability are preferentially considered in case of equal qualification.

Please also note the data protection notice on the BTU website.

Please send your application with the qualification proofs, a tabular representation of professional background, a list of publications as well as proof of educational suitability by e-mail in a summarized pdf file of a max. 7 MB not **later than: November 23, 2020**

**Dean of the Faculty of Mechanical Engineering, Electrical and Energy Systems,
Postal address: BTU Cottbus - Senftenberg, Post office box 101344, 03013 Cottbus**

Email: fakultaet3+bewerbungen@b-tu.de



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.