TUD Dresden University of Technology, as a University of Excellence, is one of the leading and most dynamic research institutions in the country. Founded in 1828, today it is a globally oriented, regionally anchored top university as it focuses on the grand challenges of the 21st century. It develops innovative solutions for the world's most pressing issues. In research and academic programs, the university unites the natural and engineering sciences with the humanities, social sciences and medicine. This wide range of disciplines is a special feature, facilitating interdisciplinarity and transfer of science to society. As a modern employer, it offers attractive working conditions to all employees in teaching, research, technology and administration. The goal is to promote and develop their individual abilities while empowering everyone to reach their full potential. TUD embodies a university culture that is characterized by cosmopolitanism, mutual appreciation, thriving innovation and active participation. For TUD diversity is an essential feature and a quality criterion of an excellent university. Accordingly, we welcome all applicants who would like to commit themselves, their achievements and productivity to the success of the whole institution.

At the Faculty of Mechanical Science and Engineering the Institute of Natural Materials Technology invites applications for the

Chair (W3) of Wood Technology and wood-based Bioeconomy

to be filled on October 1, 2025.

The focus of the chair to be filled is on the field of sustainable materials development and processing, especially from an engineering perspective. The focus of research and teaching is on biomaterials based on lignocellulose and other natural fibers, including their recycling in a cascaded circular economy. In addition to relevant topics on the design and production of differently structured materials, technological aspects of energy-efficient further processing as well as plant and machine engineering up to tool development are developed. You (m/f/x) will represent the field in research as well as in teaching, especially in the degree programs Process Engineering and Natural Materials Technology (diploma), in particular the wood technology part in the courses on wood science, wood technology as well as the wood technology specializations including associated practical courses. In addition, you will actively support the degree programs Wood Science and Technology (Master) and Teacher's Training for Vocational Schools (State Examination). You will support and shape the integration of paper technology as a specialization option within the field of study of wood technology and fiber materials technology. Your participation in the academic self-administration within the Faculty of Mechanical Science and Engineering is a prerequisite.

You are able to prove solid fundamental knowledge as well as application-oriented research and development experience in the field of wood science, wood technology and wood-based bioeconomy. In addition, you have knowledge in the areas: structure-property relationships, wood modification and lightweight construction potential of wood/wood-based materials and wood-based composites. You have relevant international research experience on the modification of natural properties of wood as a material and of modern composite materials, on new technologies in their application to wood and wood-based materials as well as other composite materials on the basis of innovative cutting, joining and handling processes with the aim of improving processing quality and increasing energy efficiency and resource efficiency. You have experience in the acquisition and implementation of research projects in basic research and application-oriented research as well as in establishing and coordinating regional, national and international research networks. Existing networks such as LignoSax e.V., Forschungsplattform Holzbearbeitungstechnologie e.V. and Interessengemeinschaft Leichtbau e.V. will be supported by you with commitment. You are qualified to cover the above-
mentioned areas in German and English and ideally apply your didactic and pedagogical knowledge and skills in digital teaching as well. Applicants must fulfill the appointment requirements of § 59 of the Institutions of Higher Education Act in the Free State of Saxony (SächsHSG).

For further questions, please contact the Dean of the Faculty of Mechanical Science and Engineering, Prof. Dr.-Ing. M. Beckmann, tel. +49 351 463-32786; email: berufungen.mw@tu-dresden.de.

TUD strives to employ more women in academia and research. We therefore expressly encourage women to apply. The University is a certified family-friendly university and offers a Dual Career Service. We welcome applications from candidates with disabilities. If multiple candidates prove to be equally qualified, those with disabilities or with equivalent status pursuant to the German Social Code IX (SGB IX) will receive priority for employment. If you have any questions about these topics, please contact the team of the Equal Opportunity Officer of the Faculty of Mechanical Science and Engineering (gleichstellung.mw@tu-dresden.de) or the Representative of Employees with Disabilities (schwerbehindertenvertretung@tu-dresden.de, Tel.: +49 351 463-33175).

Please submit your application including a CV in tabular form, a description of your scientific career, an overview of research activities, a list of your scientific publications and patents, and a list of courses taught, results of evaluations as well as a copy of the certificate of your highest academic degree until **December 08, 2023** (stamped arrival date of the university central mail service applies) preferably in electronic form (one PDF file) via the TU Dresden SecureMail Portal [https://securemail.tu-dresden.de](https://securemail.tu-dresden.de) by sending it to [berufungen.mw@tu-dresden.de](mailto:berufungen.mw@tu-dresden.de) or as hard copy to: TU Dresden, Fakultät Maschinenwesen, Dekan, Herrn Prof. Dr.-Ing. M. Beckmann, Helmholtzstr. 10, 01069 Dresden, Germany. In case of hard copies, please attach all documents to your application in electronic form (CD or USB storage medium).

**Reference to data protection:** Your data protection rights, the purpose for which your data will be processed, as well as further information about data protection is available to you on the website: [https://tu-dresden.de/karriere/datenschutzhinweis](https://tu-dresden.de/karriere/datenschutzhinweis).