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** seeks to fill the

Endowed chair (W3) of Circular Fiber-based Packaging Systems

at the **earliest possible date** for a fixed term of 5 years.

Through its research foundation of the paper industry, the association DIE PAPIERINDUSTRIE is endowing the chair at TUD for five years with the aim of giving lasting impetus for the development of innovative and sustainable solutions for the packaging industry. The chair will focus on researching and teaching materials, processes and technologies that enable reliable, efficient and resource-saving packaging with recyclable system solutions.

The chair to be filled will focus on the field of recyclable packaging materials made from renewable raw materials and/or recyclates, their mechanical production and processing in a cascaded circular economy. The professorship's area of expertise therefore includes methods and tools for analyzing, synthesizing and optimizing the system structure of packaging as well as the manufacturing and processing technologies of the packaging materials used. The research object of the endowed professorship is therefore the investigation of the material system behavior over the life phases of packaging within the framework of material cycles. The findings should form the basis for the development of practical packaging and production systems in mass production, taking into account the various scales, production conditions, sustainability aspects and diverse requirements for packaging.

You (m/f/x) will represent the subject area of circular fiber-based packaging systems within the degree programs Mechanical Engineering, Process Engineering and Natural Materials Technology (Diploma/Master) and in teaching export in degree programs of the Faculty of Business and Economics. On the research side, this includes the requirements, framework conditions and technical solution concepts of the circular economy using the example of circular packaging technologies and systems and complements the courses on processing machines and processing technology. In addition, this is synergistically linked with the study programs on paper technology at the Faculty of Mechanical Science and Engineering. You will be committed to providing subject-specific impetus in order to expand and further develop the aforementioned courses. You will also be responsible for presenting and representing this content.

We expect you to be able and willing to teach courses in both English and German and to actively participate in academic self-administration. You will play an important role in existing or developing networks such as PACKNET® DRESDEN or the lab for circular packaging technologies and systems

being set up at TUD, actively shaping them and making regular contributions. You will coordinate the cooperation in the latter lab and actively integrate it into the research activities of the Center for Integrated Natural Materials Technology and DRESDEN-concept e.V.

You are internationally experienced and scientifically active in the field of packaging technology and in particular in the field of natural fiber-based packaging systems. You have solid basic knowledge and application-oriented research and development experience with a focus on at least one of the following areas:

- Processing behavior of flat packaging materials with a focus on biogenic, in particular fiber-based materials and multi-material systems based on them, including identification and, if necessary, development of measurement/testing methods,
- Model-based analysis, synthesis and optimization of packaging systems and processes
- Application of modern methods in the analysis, processing and use of material and process data, in particular machine learning/artificial intelligence methods.

You have experience in the acquisition and implementation of research projects in basic research and application-oriented research. This includes the willingness and ability to actively shape the exchange of knowledge and cooperation between different institutions in national and international research and communication networks. The requirements for appointment, official duties and administrative status are governed by §§ 59, 69, 71 of the Act on Higher Education Institutions in the Free State of Saxony (SächsHSG) and the Regulations on Duties and Responsibilities of Institutes of Higher Education (HSDAVO).

For further questions, please contact the Dean of the Faculty of Mechanical Science and Engineering, Prof. Dr. Michael Beckmann, phone +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 or related topics, please contact the team of the Equal Opportunities Officer of the Faculty of Mechanical Science and Engineering (gleichstellung.mw@tu-dresden.de) or the Representative of Employees with Disabilities (Mr. Roberto Lemmrich, phone +49 351 463-33175, schwerbehindertenvertretung@tu-dresden.de).

We look forward to receiving your application by **November 17, 2025** (time stamp on the email server or the stamped arrival date of the University Central Mail Service of TUD applies).
Please attach the following documents to your letter of application: curriculum vitae in table form, a synopsis of your academic career, a list of academic publications, a list of courses, results of teaching evaluations covering the last three years, a research and teaching concept, summary of your third-party funding, and a copy of the certificate of your highest academic degree.
We kindly ask you to submit your application by email. Please use the SecureMail Portal of TUD (https://securemail.tu-dresden.de) and send your documents in a single PDF document to: **berufungen.mw@tu-dresden.de**. If you are applying by regular mail, please also attach your application documents in electronic form (CD or USB thumb drive) and send them to: **TU Dresden, Fakultät Maschinenwesen, Dekan, Prof. Dr. Michael Beckmann, Helmholtzstr. 10, 01069 Dresden, Germany.**

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.