

TUD Dresden University of Technology, as a University of Excellence, is one of the leading and most dynamic research institutions in the country. 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 Engineering, Institute of Textile Machinery and High Performance Material Technology, Chair of Textile Technology**, the **research group Woven Structures for Composites** offers a project position as

Research Associate (m/f/x)

(subject to personal qualification employees are remunerated according to salary group E 13 TV-L)

starting **as soon as possible**. The position is limited until August 31, 2028 with the option of extension in follow-up projects. The period of employment is governed by § 2 (2) Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG).

Tasks:

- conduct research and development in the field of woven (2D/3D) reinforcement structures for fiber-reinforced composites
- design and develop textile preforms and weaving processes for lightweight applications
- plan, perform, and evaluate experimental investigations (including mechanical characterization and impact behavior), as well as analyze and interpret results
- develop algorithms and models for the description and design of textile structures and processes
- prepare scientific publications and present research results at national and international conferences
- analyze structure–property relationships along the entire process chain
- support the acquisition and management of third-party funded research projects, including administrative tasks

Requirements:

- university degree (Master/Diploma or equivalent) in Textile Engineering, Mechanical Engineering, or a related field with a focus on technical textiles
- experience in weaving technology and the development of woven preforms
- experience in the development of textile processes and machine modifications
- knowledge in the manufacturing and characterization of composites
- experience in experimental testing of textiles and fibre-reinforced structures
- competence in modelling, simulation, and algorithm development
- high level of motivation, ability to work independently, and strong team skills

We offer:

- a challenging and exciting research environment with cutting-edge materials and processes, as well as access to state-of-the-art machinery and software
- collaboration with a competent, successful, and friendly team
- opportunity to participate in scientific conferences
- opportunity to collaborate with international research partners
- extensive training and continuing education opportunities
- flexible and family-friendly working hours

For subject-specific questions, please contact Dr. Cornelia Sennewald (cornelia.sennewald@tu-dresden.de, Tel.: +49 351/463-39315).

TUD strives to employ more women in academia and research. We therefore expressly encourage women to apply. The university is a family-friendly university. 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.

Application: Please submit your detailed application with the usual documents by **May 15, 2026** (stamped arrival date of the university central mail service or the time stamp on the email server of TUD applies), preferably via the TUD SecureMail Portal <https://securemail.tu-dresden.de> by sending it as a single pdf file to i.textilmaschinen@tu-dresden.de or to:

TU Dresden, Chair of Textile Technology, Prof. Cherif, Helmholtzstr. 10, 01069 Dresden, Germany.

Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.



TUD is a founding partner in the DRESDEN-concept alliance.

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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>.