The Institute of Textile Machinery and High Performance Material Technology at the Faculty of Mechanical Science and Engineering seeks to fill the Chair (W3) of Assembly Technology for Textile Products from 1 October 2018.

Research activities are both theoretically and experimentally oriented, with several CAE laboratories including particularly powerful software, and numerous other laboratories equipped with modern assembly technology available on-site. The above mentioned areas should be integrated into the research focuses of “Lightweight Construction in Multi-Material Design”, “Efficient Energy Technology” and “Product Development and Production” of the Faculty of Mechanical Science and Engineering. The successful candidate has to give lectures on methods and machines of ready-to-wear technology, development and construction of textile end products from flexible materials using CAE technology, as well as on assembly of technical textiles including their utility value assessment. Relevant teaching experience is expected. The duties include participation in academic selfadministration.

Comprehensive knowledge concerning the following subjects is required:

- CAE modeling and simulation of textile products made from flexible materials,
- design of production processes with the expected product characteristics considering the properties and behaviour of textile materials and semi-finished products, and handling processes,
- construction and modification of assembly machines or cutting and assembling techniques for textile products respectively.

The position requires a person who represents the fields of product development of ready-to-use textile products or textile components of complex technical systems as well as their production with technologies and machines of textile ready-to-wear technology or rather cutting and assembling technology in research and teaching. This includes machine construction and development in interaction with the special properties of textile materials and semi-finished products as well as utility value assessment of these products regarding their specific operating conditions. Applicants are expected to be internationally established in these subject matters. Experience in the management of research projects and personnel management skills are required. Relevant practical experience is of particular relevance for covering industry-related research activities. The skills for conducting lectures in the English language are required. Applicants must fulfil the employment qualification requirements of § 58 of the Act Governing Academic Freedom in Higher Education in the Free State of Saxony (Saxon Academic Freedom in Higher Education Act – SächsHSFG).

TU Dresden seeks to employ more female professors. Hence we particularly encourage women to apply. Applications from disabled candidates or those with additional support needs are very welcome. The University is a certified family-friendly university and offers a dual career service. If you have any questions about these topics, please contact the Equal Opportunities Officer of the Faculty, Mrs. Veneta Schubert (Tel.: +49 351 463 33888) or the Representative of the Disabled, Mrs. Birgit Kliemann (Tel.: +49 351 463 33175).
Please submit your application, including CV, description of your scientific career, a list of your scientific publications, and a list of courses taught, results of evaluations of the last three years as well as a certified copy of your highest academic degree as hard copy and as electronic copy (CD) to TU Dresden, Dekan der Fakultät Maschinenwesen, Herrn Prof. Dr.-Ing. habil. Ralph Stelzer, 01062 Dresden, Germany until 05.10.2017 (stamped arrival date of the university central mail service applies).