

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.

The **Research Training Group (RTG) "Interactive Fiber Rubber Composites" (GRK 2430/2)** funded by the Deutsche Forschungsgemeinschaft (DFG) welcomes applications for up to nine

Research Associates / PhD Students (m/f/x)
(subject to personal qualifications, employees are remunerated according to salary group E 13 TV-L)

starting **November 1, 2024** and is limited until October 31, 2027. The three years period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). The position aims at obtaining further academic qualification (e.g. PhD). This major project is focused on basic research and will be completed in collaboration with the Leibniz-Institut für Polymerforschung Dresden e.V..

Tasks: obtaining independent and cooperative qualification through scientific research within one of the PhD projects offered by the Research Training Group GRK 2430 (for more information, see <https://tu-dresden.de/ing/forschung/grk2430>); training in the subject-specific scientific and engineering fields of the PhD project through literature studies and by further specifying individual objectives; Working on the individual doctoral project in close collaboration with other RTG members (fellow students and supervisors); conducting experiments and simulation, drawing conclusions and interpreting results; Sharing results on an internal RTG exchange platform; elaboration and presentation of newly attained knowledge in the respective field of research; participation in lectures and workshops according to the guidelines of the RTG agenda; supporting scientific graduation theses (Bachelor/Master/Diploma) within the respective field of research; regular reporting on individual research progress to the corresponding supervisors; publishing of research results in the form of individual or joint publications in scientific journals and at conferences; cooperative maintenance of the exchange platform (database, information pages, etc.); summarizing the individual research results of the PhD project in the form of a dissertation, submitted within the time limit of 3 years.

Requirements: very good or good university degree (Master, diploma or equivalent) in one of the following areas: mechanical engineering (textile technology, measurement technology, thermodynamics, lightweight engineering), electrical engineering (sensors, actuators, automatic control), materials science (elastomer processing), chemistry and physics, or modelling and simulation in any of these areas. We are seeking first-class graduates with excellent expertise in the doctoral subjects offered by the RTG, high interdisciplinary desire to learn and cooperate, advanced oral and written English communication skills and the absolute willingness to complete the dissertation by the end of the three-year research period.

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.

Applications should be submitted in English and include the following documents: motivation letter stating research interests and **preferred PhD sub-project of cohort III** (further information: <https://tu-dresden.de/ing/forschung/grk2430>), curriculum vitae, degree certificates including lists of grades, recommendation letters, list of publications and, where appropriate copy of master thesis. Application documents should be submitted by **June 28, 2024** (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, GRK 2430, Institut für Textilmaschinen und Textile Hochleistungswerkstofftechnik, Herrn Prof. Cherif, Helmholtzstr. 10, 01069 Dresden, Germany**. Please submit copies only, as your application will not be returned to you. The interviews are preferably conducted via web meeting. Expenses incurred in attending an interview cannot be reimbursed.

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>.