

The **Research Training Group "Interactive Fiber Rubber Composites" (GRK 2430)**, funded by the Deutsche Forschungsgemeinschaft (DFG), welcomes applications for up to 9 positions as

Research Associate / PhD Student

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

starting **November 1, 2021**, subject to resources being available, limited until 31.10.2024. The 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 GRK members (fellow students and supervisors); conducting experiments, drawing conclusions and interpreting results; sharing results on an internal GRK 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 GRK 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 GRK, 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.

Applications from women are particularly welcome. The same applies to people with disabilities. Applications should be submitted in English and include the following documents: motivation letter stating research interests and preferred PhD project (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 **July 30, 2021** (stamped arrival date of the university central mail service applies), preferably via the TU Dresden SecureMail Portal <https://securemail.tu-dresden.de> by sending it as a single pdf document to i.textilmaschinen@tu-dresden.de or by mail to **TU Dresden, GRK 2430, Institut für Textilmaschinen und Textile Hochleistungswerkstofftechnik, Herrn Prof. Cherif, Helmholtzstr. 10, 01069 Dresden**. 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>