The Boysen - TU Dresden - Research Training Group for Young Researchers from the Engineering, Social Sciences, Arts and Humanities, co-financed by the Friedrich and Elisabeth Boysen Foundation and Technische Universität Dresden, offers, subject to resources being available, a

**doctoral scholarship**

in the **Cluster A: New Materials** for a period of three years starting on **1st January 2019**. The **interdisciplinary Research Training Group Mobility in flux - Challenges and solutions for technology, environment and society** consists of four Clusters.

**Tasks:** At the Institute of Circuits and Systems the laboratory of Measurement and Sensor Systems is working on novel laser based measurement systems for process and fluid technology. Within the Research Training Group the processing of novel catalyst materials is investigated. This requires the qualification, set-up, characterization and application of optical measurement systems for flow, temperature and pressure inside of a pulsation reactor. The investigations are conducted together with partners from mechanical engineering and chemistry.

**Requirements:** University degree in electrical engineering, mechanical engineering, physics or similar studies; ability for working autonomously and goal-driven within a team; great commitment and good English skills, analytical thinking and taking joy in practical work. The receipt of the scholarship obliges the student to be present at the Research Trainings Group's premises on three fixed core days per week. Participation in the Research Training Group's teaching programme is obligatory.

**We offer:** A diverse, current and ambitious research topic; a young and interdisciplinary team; creative possibilities; visits at international conferences and contacts to partners in research and industry. Within the Research Training Group you will find profound support, professional training as well as qualifications opportunities for instance in project management and language courses. Applications from women are particularly welcome. The same applies to people with disabilities.

Please submit your comprehensive application including the usual documents preferably as a single pdf-document to grp-mst-sekretariat@msx.tu-dresden.de (Please note: We are currently not able to receive electronically signed and encrypted data.) or by mail to: TU Dresden, Fakultät Elektrotechnik und Informationstechnik, Institut für Grundlagen der Elektrotechnik und Elektronik, Professur für Mess- und Sensorsystemtechnik, Herrn Prof. Jürgen Czarske, Helmholtzstr. 10, 01069 Dresden. Deadline for application is **14.12.2018** (stamped arrival date of the university central mail service applies). Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews 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