



Tendering for
Boysen - TU Dresden – Research Training Group
16 Doctoral Scholarships
**Mobility in flux -
Challenges and solutions for technology, environment and society**

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 16 doctoral scholarships for a period of three years, subject to final funding approval on 1st January 2019. The interdisciplinary Research Training Group consists of four clusters.

Cluster A: New Materials

Disciplines involved: Energy Process Engineering; Chemistry; Measurement and Sensor System Technology

Cluster A approaches the topic from a technical-scientific perspective with the intention of advancing the development of new propulsion systems. The aim is to improve energy efficiency in the production of new materials, to minimise and reduce exhaust emissions and immissions to a minimum, and thus help to avoid environmental and health problems. The cluster consists of three sub-projects:

SP A1: Development of novel oxidation catalysts for the removal of VOCs and NO_x

SP A2: Theoretical and experimental investigation of process boundary conditions in pulsating flows for the production of novel oxidation catalysts

SP A3: Non-invasive characterisation of fluid particle interaction in a pulsation reactor

If you have any questions, please contact Prof. Michael Beckmann: michael.beckmann@tu-dresden.de

Applicants are expected to have an outstanding university degree and a high level of willingness for interdisciplinary work and research. Common premises will be provided. The receipt of the scholarship obliges the student to be present at the Research Training Group's premises on three fixed core days per week. Participation in the College's teaching programme is obligatory. Training and qualification opportunities are offered (e.g. project management, soft skills, language courses).

Women are expressly encouraged to apply. The same applies to people with disabilities. Your application must include a letter of motivation, a CV, copies of academic certificates or other relevant qualifications (language certificates, further education). In addition, a text sample of max. 10 pages must be added (essay, graduation thesis, publication).

Please send your application with the subject "Boysen - TUD Dresden – Research Training Group" by 31st October 2018 (postmark of ZPS of TU Dresden applies) to TU Dresden, Institute of Process Engineering and Environmental Engineering, Chair of Energy Process Engineering, 01062 Dresden; or via email to michael.beckmann@tu-dresden.de¹. Your application documents will not be returned, please submit copies only. Any costs incurred will not be covered.

¹ Note on data protection: The rights you have and the purpose for which your data is processed, as well as further information on data protection, can be found on our website.

<https://tu-dresden.de/karriere/datenschutzhinweis>.