



PhD position in image sequence analysis

We are looking for a PhD candidate to work on a topic in the field of photogrammetric image sequence analysis within the DFG-funded Research Training Group “Mineral-bonded composites for enhanced structural impact safety”, established at TU Dresden in 2017 by the German Research Society. We have a full-time position available for three years, starting in May 2020.

Applicants should have a strong background in image analysis / photogrammetry / geodesy, be familiar with image analysis and image matching techniques, be interested in technical projects and have very good programming skills. The PhD thesis topic will be in the field of developing novel photogrammetric image sequence analysis techniques for civil engineering material testing using stereoscopic highspeed camera systems, but the successful candidate has the freedom to define her/his own research focus within this field together with the supervisors.

Detailed information on the research training group can be found on the [GRK2250 homepage](#), more information on current work in image sequence analysis within GRK2250 on <http://grk2250.de/?node=16> and [here](#). Tasks, requirements and the application procedure are described in the enclosed announcement. Please note that the announced position in photogrammetric image sequence analysis is one out of eleven positions to be filled in the research training group.

We offer the integration into the technical and softskill programs of the research training group with the goal of pursuing a PhD, and a 100% employment with a salary according to the [TV-L E13](#) scale. The successful candidate will work together with ca. 15 post-graduates in the [photogrammetry group](#) at TU Dresden, one of eleven German Universities of Excellence.

Further questions can be discussed with the supervisor, Prof. Dr. Hans-Gerd Maas (hans-gerd.maas@tu-dresden.de). Applications should be sent to grk2250@mailbox.tu-dresden.de before 13.12.2019, with cc to Prof. Maas.

The **Research Training Group "Mineral-bonded composites for enhanced structural impact safety" (GRK 2250)**, funded by the German Research Foundation (DFG), is offering eleven positions starting from **01.05.2020**, subject to resources being available, as

Research Associate / PhD student

(Subject to personal qualification employees are remunerated according to salary group E 13 TV-L)

limited until 30.04.2023. 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).

Tasks: independent and cooperative qualification through scientific research within one of the doctoral study projects on offer; training in the technical tasks of the individual dissertation topics through study of the literature and in making the objectives more precise; working on the individual doctoral study project with experimental, numerical, metrological or empirical focus in collaboration with other GRK members (fellow students and supervising professors); implementation of the planned research program, evaluation and interpretation of the results and transferring them to a GRK internal exchange platform, elaboration and presentation of the state-of-the-art in the respective research fields; participation in lectures, workshops and summer schools according to the guidelines of the GRK curriculum; supporting scientific graduation work (Bachelor/Master/Diploma) in the subject-specific research field; regular reporting on research progress to the supervising professors; publishing the results of the research work individually or in concert with others; cooperative maintenance of exchange platforms (database, information pages, etc.); summarizing the results of the individual doctoral study project in a dissertation within the due time of 3 years.

Requirements: very good university degree in one or more of the following areas: civil engineering, materials science, chemistry, physics, mechanical engineering (in the textile or measuring technologies) and geodesy (optical 3D measurement). We are looking for first-class, young graduates with excellent expertise in the GRK-addressed doctoral subjects, high interdisciplinary desire to learn and willingness to cooperate, very good verbal and written English communication skills as well as the absolute determination to submit the dissertation after only 3 years of research.

Applications from women are particularly welcome. The same applies to people with disabilities. Please send your application, including a cover letter detailing your research interests and your preferred doctoral study subject in accordance with <https://tu-dresden.de/bu/grk2250>, along with your curriculum vitae, academic transcripts with marks, a letter of recommendation and your publications (if applicable) before **13.12.2019** (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: grk2250@mailbox.tu-dresden.de or by post to **TU Dresden, GRK 2250, Herrn Prof. Mechtcherine, Helmholtzstr. 10, 01069 Dresden**. 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>