

Would you like to do your doctorate on a highly relevant topic in an inspiring environment? Would you like to work with an interdisciplinary group of doctoral students, renowned supervisors, professional administrative support and a variety of opportunities for scientific networking? - Then apply to KRITIS! The interdisciplinary Research Training Group (RTG) KRITIS "Critical infrastructures: Construction, Functional Failures and Protection in Cities", Germany, announces twelve

## PhD positions (f/m/d)

at the Technical University of Darmstadt for different research foci scheduled to begin 1 October, 2019. The positions are limited to 3 years and comprise, depending on the field of study, 65% (social sciences and humanities) or 100% (engineering) of a full-time job.

**Field of Research:** The RTG analyses urban technological systems, but also the interactions between technology and (urban) societies in the past and present. The focus is on networked systems of supply and disposal, communication and transport. The members of the RTG are researching particularly the "construction" (How and why does an infrastructure become critical?), "functional crises" (How do failures occur and what consequences do they have?) and the "protection" of infrastructures (How can failures be prevented or their consequences be diminished? How can cities prepare for them?). Our interdisciplinary collaboration is based on the five key concepts of criticality, vulnerability, resilience, preparedness and prevention.

The RTG has been running since autumn 2016 – please inform about the orientation, activities and first scientific results on our homepage: [www.kritis-tu-darmstadt.de](http://www.kritis-tu-darmstadt.de).

Most of the current dissertation projects of the first cohort will have been completed by end of this year. Doctoral students will work on individual doctoral projects. For the second cohort, we would like to see a particularly strong interest in temporal and spatial relationships. In addition, the first cohort has noticed a great desideratum with regard to the conception of "criticality".

Dissertations can be written in the following subjects: Modern History, History of Technology, Medieval History, Philosophy of Technology and Technoscience, Political Sciences, Urban Governance and Planning/Urban Sociology, Architecture (Design and Urban Development), Informatics in Construction Science, Railway Engineering, and Informatics (Ubiquitous Knowledge Processing). You can find further information on the subject-specific requirements on our website under "Announcements".

Tasks: The Graduate Fellows must complete a dissertation within three years in their respective fields. All members are expected to engage with the academic concepts of the research program and to closely collaborate across disciplines. A high level of commitment is expected in the exchange among each other and in joint scientific activities. In addition, there should be active participation in the external presentation of the RTG, especially during the on-site inspection of the extension application in 2020.

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**Requirements:** The requirement for the positions is an excellent academic degree in a discipline that matches the above-mentioned research foci. The regular joint activities take place in German and English, so a good command of the English language and (if required) willingness to acquire a good knowledge of German are expected. The place of employment is Darmstadt.

**Conditions:** The Research Training Group offers an excellent research infrastructure for PhD candidates who would like to complete their dissertations in an innovative, international program. The Fellows will work in common areas with dedicated office space, will have the support of participating professors and their own research support office. You can take advantage of a wide range of support services during the doctoral phase. These include group/individual coaching, writing workshop, debate training and others. Within the framework of the available financial resources, stays abroad financed over several months are also possible.

Opportunity to work on a PhD thesis is given. The provision of the service also serves the scientific qualification of the applicant.

The TU Darmstadt has an affirmative action program to promote equity in the employment of women and members of underrepresented minorities and strongly encourages them to apply. Candidates who have a degree of disability of at least 50 are given preferred treatment if equally qualified. Salaries depend on each Fellow's qualifications and experience, and will be calculated according to the collective agreement of TU Darmstadt (TV-TU Darmstadt). Part-time employment is generally possible.

**Your application:** Please submit your application by 28 May, 2019 in English or German to [info@kritis.tu-darmstadt.de](mailto:info@kritis.tu-darmstadt.de) (as one pdf file, max. 6 MB) and indicate for which professor you apply. You must enclose (1) a motivation letter; (2) a CV with information on academic qualifications, language skills and international experience, (3) scanned copies of academic credentials, and (4) a proposal for a PhD project contributing to the academic programme of the RTG.

Please contact the professor you would like to be supervised beforehand. For contact details, see [www.kritis.tu-darmstadt.de/announcements](http://www.kritis.tu-darmstadt.de/announcements). The job interviews will take place on 27-28 June in Darmstadt.

We look forward to your application!

**Code Number: 227**

**Application Deadline: 28 Mai, 2019**