

Ph.D. Position Opening

The Smart Urban Networks (SUN) group in the Telecooperation Lab (TK) at TU Darmstadt – one of the top engineering schools in Germany, is looking for candidates for a full time Ph.D. position. The position is concerned with the performance optimization of a novel edge computing system framework, based on the concepts of microservice and serverless computing. The main objective is to develop autoscaling and caching mechanisms adapting to system dynamics for achieving high resource utilization and low response time for the edge environment.

Requirements

- A master's degree in computer science, information technologies, applied mathematics, or related fields with excellent grades
- A strong background in algorithms, analysis, combinatorial optimization
- Basic knowledge about distributed systems and computer networks
- Experience in programming languages such as Python, C++, Java

The applicant should be highly motivated and able to perform critical thinking and analysis. The position is funded by the German Science Foundation (DFG) through the Collaborative Research Center (CRC) MAKI (<https://www.maki.tu-darmstadt.de>). Therefore, excellent communication and teamwork skills are required. In addition, excellent written and spoken English proficiency is expected.

Benefits

- Very competitive salary (scale TV-L-E13, around €48.000 per annum)
- Access to customized professional skill training
- Financial support for publishing and traveling to leading international conferences

Application

We encourage qualified candidates to apply by sending the following documents to Dr. Lin Wang (wang@tk.tu-darmstadt.de). Please compile all the files in a single PDF.

- CV, describing your education background, past experiences, list of publications, at least two references
- A cover letter describing your motivation of application
- Transcripts of records for both your bachelor and master studies

About TU Darmstadt

Founded in 1877, TU Darmstadt was the first university worldwide to establish a faculty and a course of study in electrical engineering in 1882. With about 25.000 enrolled students in 13 departments and 286 professors, it is considered one of the top universities for computer science research in Germany. At present, it is one of the world's top 100 universities for engineering and technology according to both THE World University Rankings and QS World University Rankings. Darmstadt is centrally located in the Rhein-Main area, it is close to Heidelberg, Cologne, and Frankfurt, with Germany's biggest airport. You will find more information on Darmstadt here: <https://www.tu-darmstadt.de/index.en.jsp>