TECHNISCHE UNIVERSITÄT KAISERSLAUTERN

MAX PLANCK INSTITUTE FOR SOFTWARE SYSTEMS

Research Environment: The advertised PhD and Postdoctoral positions involve TU Kaiserslautern and Max-Planck Institute for Software Systems as part of the Max-Planck Fellow Program.

Kaiserslautern is one of the largest computer science hubs in Germany. The department combines the teaching of basic training with excellent applications and regularly ranks among the top universities in relevant German rankings. The Max Planck Institute for Software System (MPI-SWS) is an internationally renowned research institution in all areas related to software systems. MPI-SWS offers a vibrant, dynamic, multi-cultural environment for research and graduate education. The institute maintains an English-speaking, multicultural and open working environment. The department is only a short walk away from MPI-SWS, which in turn is a stone's throw away from the Fraunhofer Institute for Experimental Software Engineering (IESE), the Fraunhofer Institute for Industrial Mathematics (ITWM), the German Research Centre for Artificial Intelligence (DFKI) – enabling close collaborations between the aforementioned institutes.

Joint TUK– MPI-SWS Positions

Successful applicants will conduct highly visible research as members of both the Automated Reasoning Group of the TUK and the Automated Reasoning Group of MPI-SWS, led by Prof. Anthony W. Lin. They will also be co-supervised by Prof. Rupak Majumdar, and will have an opportunity to work with Dr. Georg Zetzsche.

Type of employment: 1 Doctoral & 1 Postdoc positions – fully funded, inc. social benefits.

Starting tarting date: Preferably as soon as possible (not later than September 2021)

Application Deadline: 21 March 2021

Job description: Successful applicants will conduct research at the highest possible level at ARGs of TUK and MPI-SWS. Topics are flexible, but should be in line with the general research directions of the groups. These currently include (but are not limited to) algorithmic verification over string-manipulating programs, parameterized system verification, and other topics in logic, automata, verification, and database theory.

Qualifications: Applicants should have strong backgrounds in computer science (or related areas like mathematics) with experience in at least one of the following areas: logic, algorithms, complexity theory, database theory/ systems, programming language theory/implementation, formal language theory, and formal verification. For a PhD (resp. postdoctoral) position, a bachelor's (resp. doctoral) degree in computer science or related areas is compulsory. A master's degree in the area is also highly desirable.

Contact: Prof. Anthony Lin (anthony.lin@cs.uni-kl.de, awlin@mpi-sws.org)

To apply, please send a CV and a research statement in an email to Prof. Lin. Please do not hesitate to contact us should you have further questions.