**Junior-Professorship (without Tenure Track) for Modeling and Analysis in Mobility Software Engineering**

**Job description:**

The junior professorship is associated with a junior research group leadership and is intended to strengthen the focus on Mobility Software Engineering in the Innovation Campus “Mobility of the Future” (ICM). In the ICM, the Karlsruhe Institute of Technology and the University of Stuttgart combine their competences in research and innovation to conduct interdisciplinary research into new forms of individual mobility, flexible production technologies and future value-added networks, thereby offering an ideal environment for the junior professorship.

The professorship’s mission is to research, integrate, develop, and adapt modeling languages and analysis methods that address specific challenges of individual mobility of the future. Examples would be the development and analysis of discrete-continuous (hybrid) models or the handling of dynamic context changes of mobile, especially runtime-adaptive systems. The primary goal of the research should be to improve the reliability of mobility systems. Therefore, it is expected that quality attributes of the systems such as security, safety, reliability or availability will be considered in the context of the research.

The professorship contributes to an appropriate extent to the teaching of the KIT Department of Informatics. The professorship is associated with a teaching obligation of 4 hours before and 6 hours after the successful evaluation. You will actively shape your research at KIT and your own further development and will independently supervise doctoral candidates and students. In doing so, you will combine a cooperative working method with strong communication skills.

**Qualification:**

A university degree, pedagogical aptitude and special aptitude for scientific work are required as well as an excellent dissertation. At the time of the call for applications, the PhD should not have been completed more than four years ago. It’s advantageous, if you have experience in teaching and in the acquisition of third-party funds and if you are international visible. Employment conditions as outlined in § 51 LHG (Act of Baden-Württemberg on Universities and Colleges) in conjunction with § 20 KITG (KIT-Act) in the version applicable until the legal validity of the 2. KIT-Weiterentwicklungsgesetz (2nd KIT Further Development Act) shall apply as well as the Quality Assurance Concept for Junior Professorships and Tenure-Track Professorships at Karlsruhe Institute of Technology (KIT), which is also followed by the evaluation procedure and the general evaluation criteria. This junior professorship is expected to be committed to the "Mobility of the Future" innovation campus. For a plannable scientific career development, an accompanying procedure is offered at KIT.
Institute: KASTEL - Institute of Information Security and Dependability / KIT-Department of Informatics / Division II

Contract duration: The employment will be for a period of six years as a temporary civil servant or as an employee. An interim evaluation takes place in the fourth year of service, and a final evaluation at the end of the employment period.

Starting date: As soon as possible, probably not before summer of 2022.

Application up to: 06.01.2022

Contact person in line-management: Professor Ralf Reussner / reussner@kit.edu

Application: Applications in English language with the required documents (curriculum vitae, degree certificates as well as a list of publications) and a perspective paper (maximum of two pages) should be sent - preferably summarized in a single PDF file and by e-mail - to the Karlsruhe Institute of Technology, Dean's Office of the KIT Department of Informatics, Division 2, Am Fasanengarten 5, D-76131 Karlsruhe, dekanat@informatik.kit.edu by January, 6th 2022. For further information, please contact Professor Dr. Ralf Reussner, E-Mail: reussner@kit.edu.

KIT is an equal opportunity employer. Women are especially encouraged to apply. Recognized severely disabled persons will be preferred if they are equally qualified.

The processing of personal data by the Karlsruhe Institute of Technology (KIT) is carried out according to the Privacy Policy.

The KIT is certified as a family-friendly university and offers part-time employment, leaves of absence, a Dual Career Service and coaching to actively promote work-life-balance.