Research Staff Member / Doctoral Candidate (f/m/d)
Topics: Secure software-based and virtualized networks, Robust and secure Industrial Internet, Self-driving networks

Job description: You will be part of our highly motivated research team at the Institute of Telematics and research novel communication technologies to improve the Internet in different areas of application. We seek support for several of our current research projects:

- **Secure software-based and virtualized networks.** Your focus will be on attack detection and mitigation in high performance networks in the context of identity management systems. The application of machine learning shall facilitate semi-automated reaction to highly dynamic threat actors.

- **Robust and secure Industrial Internet and cyber physical systems** (e.g., distributed energy systems). Your focus will be on mechanisms regarding redundancy in software-based control networks to enhance robustness and to enable dynamic adaptations to cope with changing situations (e.g., security incidents).

- **Self-driving networks** (similar to self-driving cars). Your focus will be on advanced traffic engineering, highly automated network control, flexible system configuration and/or enhanced congestion control in high performance networks. Machine learning techniques may be applied.

The Institute of Telematics provides an excellent research infrastructure with high performance servers, software-defined networks as well as extensive, flexible and powerful testbeds. We offer exceptional possibilities for collaboration in an innovative and pleasant environment.

Qualification: You have a very good diploma degree or M.Sc. in computer science or a related discipline as well as good skills in English and German. Experience in communication systems, machine learning or network security is desirable.

We offer: We offer an attractive and modern workplace with access to excellent facilities of KIT, diverse and responsible tasks, a wide scope of advanced training options, supplementary pension with the VBL (Pension Authority for Employees in the Public Service Sector), flexible working time models, a job ticket (BW) allowance, and a cafeteria/canteen.

Salary: The remuneration occurs on the basis of the wage agreement of the civil service in TV-L E13.

Institute: Institute of Telematics (TM), Research Group Prof. Zitterbart
Contract duration: Limited to 3 years
Starting date: At the earliest opportunity
Application up to: 20.09.2020
Contact person in line-management: Technical information can be provided by Prof. Dr. Martina Zitterbart, Tel: +49 721 608 46400, E-Mail: zitterbart@kit.edu
Application: Application can be submitted at
Karlsruhe Institute of Technology (KIT)
Institute of Telematics (TM)
Research Group Prof. Dr. M. Zitterbart
Kaiserstr. 40, Building 01.99
76133 Karlsruhe
Germany
E-Mail: zitterbart@kit.edu

We prefer to balance the number of female and male employees. Therefore, we kindly ask female applicants to apply for this job.

If qualified, handicapped applicants will be preferred.

KIT is certified as a family-friendly university (familienfreundliche Hochschule) and offers part-time employment, leaves for family-related reasons, dual career options, and individual coaching for family-work balance.

Karlsruhe Institute of Technology
Personalservice