



The Karlsruhe Institute of Technology (KIT) was founded by a merger of the Forschungszentrum and the Universität Karlsruhe. Thereby, a unique institution that bundles the missions of a university and a large-scale research institution was created. Today, the KIT counts among the world's largest research institutions.

The **Institute for Industrial Production (IIP)** at the Karlsruhe Institute of Technology (KIT) is immediately looking to fill two positions as

## **Academic Assistants in Risk Management (Payment scheme TV-L 13, full time, fixed term)**

By working on interdisciplinary and practice-oriented research projects you will advance the development of models and methods for analysing, evaluating and mitigating risks.

- **Risk management for critical infrastructures:** The failure of critical infrastructures (e.g., traffic, ICT systems) can severely harm society and the economy. You will analyse and process different past risk events to gain insights into the interdependence of critical infrastructure systems. This analysis provides the basis for the construction of scenarios that show different possible situation developments for each risk event. To evaluate risk management options, the consequences of different strategies to reduce or mitigate the impact of critical infrastructure failures are simulated. The results of this research are evaluated and presented in a meaningful manner to practitioners and users to support robust decisions (e.g., by developing tools for visualising the key aspects or generating natural reports explaining the results).
- **Supply Chain risks:** Due to the globalisation and the growing interrelatedness of today's production systems, supply chain risks are of increasing importance. You will develop methods and tools that enable a real-time assessment of the economic consequences of business interruptions, taking into account the full supply chain network. Particularly, your work aims at explicitly taking into account feedback loops, cascading effects and the dynamic interplay of all impact factors. You will assess short, medium and long term consequences of interruptions. This analysis will enable the identification of hotspots and vulnerability triggers, which is the basis for the development of efficient risk management strategies.

**As an eligible applicant, you have** a background in risk management, decision support, engineering or industrial production. An important expertise area is to understand complex industrial and societal systems, the requirements of decision makers and stakeholders in industry and politics, and enterprise networks. We expect a solid academic background with an MSc in relevant fields. Scientific ambition, motivation and strong interest in cutting-edge research along with good analytical and problem solving skills are important. As you will collaborate closely with other researchers in an international working environment, we expect good team-working skills, inventiveness, a proactive approach, and excellent English language skills.

**In return, we offer** the opportunity to contribute to the strategic capabilities of a world-class research organization, along with intensive Ph.D. supervision. You will collaborate with top scientists in your field and have excellent prospects for personal development in an innovative working environment for aspiring researchers. For further information, you can contact Prof. Dr. Frank Schultmann ([frank.schultmann@kit.edu](mailto:frank.schultmann@kit.edu)) and Dr. Tina Comes ([comes@kit.edu](mailto:comes@kit.edu)) or visit our website at [www.iip.kit.edu/english](http://www.iip.kit.edu/english).

The Karlsruhe Institute of Technology (KIT) emphasizes gender equality. Therefore, we particularly encourage applications from women. In the case of equal suitability for the position, disabled applicants will be given preference.

Please send your application until **January 15, 2012** to

**Karlsruhe Institute of Technology (KIT)  
Institute for Industrial Production (IIP)  
Chair of Business Administration, Production and Operations Management  
Prof. Dr. Frank Schultmann  
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