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**Student Assistant (m/f/d) for Simulation- and AI-Based Research Projects Wanted**

The Resilient and Smart Infrastructure Systems (RESIS) department at the Institute for Thermal Energy Technology and Safety (ITES) develops innovative concepts, models, and algorithms to enhance the resilience of infrastructure systems. The focus is on the planning and real-time operation of resilient, adaptive, and intelligent infrastructures and supply networks, such as smart energy systems, water supply, and transportation systems. Additionally, the department works on dynamic decision support in crisis management, particularly through the multi-criteria development of robust measures.

As part of these research activities, the modular simulation framework FRAMESS (Framework for Analyzing Systemic Risks and Exploring Sustainable Solutions) is being developed. This framework enables resource-efficient system development, seamless model integration, and flexible system advancement. The application areas of FRAMESS are diverse and include both the design and analysis of systems and their systemic risks.

Currently, the RESIS department is seeking an enthusiastic student assistant to support a FRAMESS application project that investigates the impacts of increasing electromobility. Additional tasks include the implementation of models and interfaces within FRAMESS as well as the further development of AI-based decision support methods.

What we expect

* Interest in resilience research
* Programming experience, particularly with Java and Python
* A committed and independent working style
* Strong communication skills
* Excellent German and English language skills

What we offer

* The opportunity to work on a highly relevant and exciting topic
* The chance to gain experience with modern IT technologies
* Flexible working hours and the option to work from various locations
* The possibility to pursue a subsequent thesis project