

A Joint Venture of TU Wien and TÜV Austria

Call for 3-Years Funded Doctoral Position



Currently Open PhD Topic:

**MODEL-BASED SECURITY & SAFETY
EVALUATION OF OT COMPONENTS**

Cyber-physical production systems (CPPS) need suitable networked architectures that take into account and combine **safety** (operation of the system must not pose any danger) and **security** (protection against unauthorized manipulation). As part of the founded “TÜV AUSTRIA Research Lab for Safety and Security in Industry”, several related research questions are addressed within the framework of **dissertation projects**.

YOUR PROFILE:

- Academic master degree in computer science/informatics, electrical engineering or information technology
- Interest in research in security and safety
- Excellent knowledge of English
- Interest in interdisciplinary work

Model-based Security & Safety Evaluation of OT Components

The aim of this PhD is to develop methods for testing of security and safety features of components from industrial control systems on the basis of engineering artifacts, in particular their specification.

- Are all specified requirements (e.g., secure protocols and authentication procedures, patch levels, configurations) met?
- Can any weak points (e.g., concerning automated tests) be identified?

The results of the tests will be assessed both qualitatively and quantitatively with regard to their potential effects. Methods need to be investigated to automatically identify and evaluate countermeasures.

For more information and application details visit: safeseclab.tuwien.ac.at

We explicitly encourage FEMALE CANDIDATES to apply. Preference will be given if equally qualified.

This posting will remain open until a suitable candidate has been found.

TU Wien is among the most successful technical universities in Europe and is Austria's largest scientific-technical research and educational institution. For 200 years, TU Wien has been a place of research, teaching and learning in the service of progress. Participating in the #SafeSecLab are the Faculty of Informatics, the Faculty of Electrical Engineering and Information Technology and the Faculty of Mechanical and Industrial Engineering.



TÜV AUSTRIA is an international company with operations in more than 20 countries with over 2.000 experts. Our tailor-made solutions embrace industrial services, inspection, monitoring, certification, IT security, insurance services and training. TÜV AUSTRIA Group's international focus and the multitude of national and international accreditations make TÜV AUSTRIA a competent, secure and dependable partner.