

Doctoral Students: Continuous Verification of CYber-Physical Systems (ConVeY) – APPLY NOW!

ConVeY is a DFG research training group, affiliated with LMU and TUM. Networks, computers, sensors and actuators are being increasingly integrated into cyber-physical systems, i.e. software systems that interact with the physical world and must cope with its continuous behavior. Ideally their design and deployment should be accompanied by a formal check of correct behavior. A fundamental challenge in the verification of cyber-physical systems is that they are subject to change. The physical environment changes continuously, at runtime and in ways that cannot be completely foreseen at the design stage. At the same time, the requirements may change. Sought-after aspects include more functionality, lower power consumption or faster response. In many cases, the system should be migrated to a different hardware platform. To face this multi-level continuous change, we are looking for excellent candidates to perform research in this area.

YOUR QUALIFICATION

- Above-average university degree in Computer Science or Electrical Engineering (or similar)
- Interest in cyber-physical systems, in robustness, safety or correctness of systems
- Basic knowledge in formal methods and/or control theory
- Goal-oriented, independent and structured work style

OUR OFFER

- Current research topic in a challenging international working environment
- Full-time position (E13 TV-L) with the perspective to receive a doctoral degree

HOW TO APPLY

Please send us your application by email with the following documents:

- CV, copies of relevant certificates and diplomas, contact information of two references
- Short description of your research interests and your motivation for the application
- Master thesis and/or up to 3 publications (if available)

APPLICATION DEADLINE: March 1st, 2021 – Start of Contract July 1st, 2021

GENERAL INFORMATION

TUM is aiming to increase the number of women employees and applications from women are expressly welcomed. People with disabilities, with essentially the same suitability and qualification will be preferred. As you apply for a position at the TUM, you provide personal data. Please note our data protection information according to Art. 13 Data Protection Basic Regulation (DSGVO) on the collection and processing of personal data in connection with your application. By submitting your application you confirm that you have taken note of the data protection information of the TUM.

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MORE INFORMATION: <https://convey.in.tum.de/>