



FRIEDRICH-ALEXANDER
UNIVERSITÄT
ERLANGEN-NÜRNBERG
TECHNISCHE FAKULTÄT

Computer Science 7 (Computer Networks and Communication Systems) of Friedrich-Alexander-University Erlangen-Nürnberg (FAU) is looking for a candidate in a cooperation (INI.FAU) with Audi:

Research Assistant

in a project entitled „Synchronized and Real-Time Distributed Simulation for Virtual Validations“

Your tasks

The use of virtual environments for the development and validation of connected and automated driving functions is currently of growing importance. These virtual environments typically consist of simulation components for vehicles and their environment as well as for control and communication. Such distributed simulations show various requirements including real-time, execution speed and time synchronization in order to avoid anomalies. You will develop suitable concepts for such distributed simulations in different use cases as well as implement and test them in the industrial context.

In the cooperation INI.FAU between Audi and FAU joint research projects are performed. Each project is associated both with a department of Audi and with a research group at FAU, with the goal of receiving a Ph.D. This offers you exceptional work experience both in academia and in industry and exciting further development possibilities.

Necessary qualifications:

- Over-average master's degree in computer science or related field of study
- Motivation to work both in an academic and industrial context
- Very good skills in communication and team work, reliability
- Ability for conceptual work
- Very good programming skills

Wishful qualifications:

- Knowledge in one or several of the following topics:
- Discrete event simulation
- Concepts of distributed and real-time systems
- Knowledge and/or experience in the automotive and mobility domain

Formalities:

- Full-time position according to E 13 TV-L
- For a limited time of 3 years
- Obtaining a Ph.D. degree is possible
- Operating places are both in Erlangen (FAU) and in Ingolstadt (Audi), cars for commuting between both places are provided

Supplementary information:

- Planned start: as soon as possible
- Applications: immediately, no deadline

For more information please contact:

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Please send applications to:

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In its pursuit of academic excellence, FAU is committed to equality of opportunity and to a proactive and inclusive approach, which supports and encourages all under-represented groups, promotes an inclusive culture and values diversity.