



Vacancy: Postdoc/Head of Junior Research Group

Our profile:

RWTH Aachen is Germany's top ranked technical university with approx. 45.000 students and close to 6000 researchers (<u>http://www.rwth-aachen.de</u>). The Chair Informatik 11 – Embedded Software (<u>http://www.embedded.rwth-achen.de</u>) is part of the RWTH Computer Science Department and is headed by Prof. S. Kowalewski. Our research activities comprise design and analysis technologies for embedded software with a focus on formal and model-based methods for safety-critical systems. Our application partners come from automotive, industrial automation, and medical technology.

We are inviting applications for a Postdoc position in the area of

Application Software Engineering for Cyber-physical Systems.

The implementation of the position is a result of the UMIC Excellence Cluster (<u>http://www.umic.rwth-aachen.de</u>). A complementing Postdoc position in the area of *Application Specific Computing Systems, System Software, and Middleware* will be offered in parallel at the Institute for Communication Technologies and Embedded Systems (ICE).

Your profile:

- Ph.D. degree in Computer Science, Computer Engineering, Electrical Engineering, or similar with excellent results.
- Strong skills in software development and model-based technology, thorough knowledge about formal methods.
- Leadership capabilities for project teams (Ph.D. candidates)
- Willingness to acquire new R&D projects and to collaborate with other RWTH faculties and institutes in the ICT domain
- Excellent communication skills, must be a team player.
- High proficiency in oral and written English. German is beneficial. We expect non-German speaking candidates to acquire a basic command of German within the first two years of the appointment.

Your tasks:

- Perform research projects in the above area, with focus on applications in automotive/mobility and industrial automation. Research topics may include
 - Testing, simulation, static analysis, model checking, and combinations of these methods for the validation and verification of dynamically changing cyber-physical systems (CPS)
 - o Model-based application software engineering for CPS
 - Flexible, scalable, real-time platforms for CPS based on standard software
- Build and head a research group (PhD. candidates) in the above area by acquiring and managing third party funded projects
- Interact with our research and industry partners, in particular with the complementing Postdoc group at ICE

- Contribute to the chair's teaching program
- Contribute to the management and administration of the chair's operations

Our team-oriented working style and cooperative leadership concept gives you the necessary freedom for your scientific research with a high degree of motivation, independence, and personal responsibility.

Our offer:

The position is limited to 5 years duration in total. Compensation is based on the German public service salary scale (TV-L 14).

RWTH Aachen University is certified as a "Family-Friendly University". We particularly welcome and encourage applications from women, disabled persons and ethnic minority groups, recognizing they are underrepresented across RWTH Aachen University. The principles of fair and open competition apply and appointments will be made on merit.

Your contact person:

For further details, please contact

Prof. Stefan Kowalewski

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or

Dr. André Stollenwerk Tel.: +49 (0) 241 80 21166 Email: stollenwerk@embedded.rwth-aachen.de or visit http://www.embedded.rwth-aachen.de

Please send your application by 31. August 2016 to

Prof. Stefan Kowalewski RWTH Aachen University Chair Informatik 11 – Embedded Software Ahornstr. 55 52074 Aachen, Germany

You can also send your application via email to applications@embedded.rwth-aachen.de. Please note, however, that communication via unencrypted e-mail poses a threat to confidentiality as it is potentially vulnerable to unauthorized access by third parties.