

Research associate positions available (3+ years)



TECHNISCHE UNIVERSITÄT
CHEMNITZ



AUTOMATIC CONTROL &
SYSTEM DYNAMICS



The **Laboratory for Automatic Control and System Dynamics** at the **Technische Universität Chemnitz** in Germany is looking for candidates for filling of several vacancies (PhD students or PostDocs) starting November 2017 or later. The contract duration is three years with a possibility of continuation. The salary is competitive and depends on your experience and personal situation (e.g.: salary for a PhD student (single) initially at least 2100 € / month (after tax) and increasing over time; standard health insurance included; approx. rent for two-room apartment in Chemnitz 350 € / month).

The lab: Research at the lab focuses on development of methods for optimization- and model-based control and identification of uncertain systems. Our research is motivated by applications from the energy and agricultural sectors as well as from automation in general. We therefore offer a variety of interdisciplinary projects and large freedom for own research ideas and solutions. Well-equipped and new offices, laboratories and IT facilities at one of the Germany's best technical universities provide an ideal working environment.

Job and project descriptions: You will work on research projects and aim for publications of your results in reputed journals and participate at international conferences. Teaching activities are also anticipated. Your research addresses, but is not limited to, one of the following ongoing projects:

- robust and explicit model predictive control in, i.a., safe human-robot-interaction
- set-based analysis and hierarchical controller design for energy systems
- learning-based optimal control in, e. g., agriculture and biotechnology
- stochastic optimal control, data analysis and scheduling for energy efficient commercial buildings

Your profile:

- Ph.D., diploma or master's degree in control theory, cybernetics, applied mathematics (especially optimization) or similar areas
- good English skills; knowledge of German will be a great advantage
- strong motivation for theoretical development of new control methods as well as their implementation
- ability to work in a team and good self-organization skills
- interest in student supervision and teaching

Application process:

Please send your application documents in the form of a single PDF to stefan.streif@etit.tu-chemnitz.de as soon as possible. Please use the reference number 241031/RAS.

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