



The Automation and Control Institute (ACIN) at TU Wien is offering the following

PhD-Position (m/f/d): „Quality Control for Repetitive Production Systems“

What you'll be doing

In the Complex Dynamical Systems Group (Prof. Andreas Kugi) and in close cooperation with an **internationally active, research consortium** you will develop new methods for the control of the production quality of repetitive production systems, in particular in injection molding and die casting.

Research topics

- Development of quality models based on physics-based modeling in combination with data-based identification
- Design of observer strategies for the inline quantification of important quality parameters
- Methods for the human assisted improvement of the production quality
- Development of optimal, iterative control strategies to improve the product quality and/or the energy consumption
- Evaluation and validation using advanced simulation models
- Realization and test of the strategies in test stands at industrial cooperation partners

Your profile

- Master's degree in mathematics, automatic control, computer science, mechatronics, electrical engineering, mechanical engineering, physics
- Excellent technical understanding and analytical capabilities
- High commitment and motivation, willingness to contribute to academic teaching
- Team spirit, strong communication skills, goal orientation, structured, and responsible way of working
- Very good command of written and spoken English, basic skills in German favorable

We offer

- Future-oriented research and innovative solutions for the latest problems
- Scientific freedom and time to author a PhD dissertation
- Solid training and continuing education as well as participation in international conferences
- Promotion, support, dialog, and cooperation in a motivated and interdisciplinary team
- Cooperation with a renowned, internationally active, research consortium
- Secured funding and well-equipped infrastructure
- Employment contract for 3 years (40 hours a week) with option for extension
- Gross salary of € 45.882,20 p.a.

We are looking forward to receiving your application including the usual documents via e-mail sent to applications.cds@acin.tuwien.ac.at. In case of questions, please contact Prof. Wolfgang Kemmetmüller (e-mail: kemmetmueller@acin.tuwien.ac.at).

About us

The Automation and Control Institute (ACIN) belongs to the Faculty of Electrical Engineering and Information Technology of TU Wien. At ACIN, more than 80 researchers conduct basic research, solve challenging practical problems, cooperate with industrial research partners, develop innovations, and offer students excellent academic teaching in the fields systems theory, automation, and control engineering. More info at <https://www.acin.tuwien.ac.at/komplexe-dynamische-systeme-cds/>.