Saarland University is a campus university with an international reputation for research excellence, particularly in computer science and in the life sciences and nanosciences. The university is also distinguished by its close ties to France and its strong European focus. Around 17,000 students, studying over one hundred different academic disciplines, are currently enrolled at Saarland University. Saarland University is officially recognized as one of Germany's family-friendly higher-education institutions and with a combined workforce of more than 4000 it is one of the largest employers in the region.

The Chair of Systems Modeling and Simulation is inviting applications for the following position commencing **at the earliest opportunity.**

Academic research assistant (m/f/x)

Reference number W2725, salary in accordance with the German TV-L salary scale[1], pay grade: E13 TV- L, duration of employment: 3 years, volume of employment: 100 % of standard working time.

Workplace/Department:

Become a member of the Systems Modeling and Simulation team! Our research and teaching covers modeling of dynamical systems, numerical simulation, identification, optimization, optimal control, and machine learning. We focus on developing efficient numerical methods for the optimization and control of dynamical systems, with applications, e.g., in robotics, medical surgery, energy management, autonomous driving.
Prof. Flaßkamp is affiliated with the faculty of natural sciences and engineering and the faculty of mathematics and computer science at Saarland University.

Job requirements and responsibilities:

- Conducting research in optimal control, model-based optimization, inverse problems, system identification and learning for dynamical systems. Design and software implementation of novel numerical methods including experimental applications. Scientific publication and presentation on (inter-)national conferences. Working in collaborative research projects such as SPP 2353 (https://gepris.dfg.de/gepris/projekt/460725022?language=en)
- Obtaining teaching profiencies, assist in teaching and general responsibilites of the working group including, e.g., acquisition of new projects.
- Opportunity to prepare for a doctoral degree or further qualification (on post-doc level) is offered.

[1] TV-L = collective agreement on remuneration of public sector employees in the German *Länder*

Your academic qualifications:

- Completed scientific university studies in engineering, (industrial/applied) mathematics, cybernetics, computer science or similar
- Language skills (according to GER): English (fluent), German (willingness to learn)

The successful candidate will also be expected to:

- Provide a (master) degree with outstanding achievements
- Have experience in one or more of the following areas: (1) Modeling of technical systems, e.g. in vehicle dynamics, robotics, automation, or material sciences, (2) Data-based modeling or system identification, (3) Optimization methods, e.g., for multi-criteria or mixed-integer problems, (4) Optimal control: theory and numerics, e.g., MPC, (5) System theory and control, (6) Machine Learning for dynamical systems
- Prove strong profiency in programming, either in MATLAB, Julia, C/C++, or Python
- Possess a quick comprehension of complex tasks and interested in gaining a deep understanding of new topics
- Be a teamplayer, have organizational competences as well as high engagement

What we can offer you:

- A flexible work schedule allowing you to balance work and family, among other things the possibility of teleworking
- Secure and future-oriented employment with attractive conditions
- A broad range of further education and professional development programmes (for example language courses)
- An occupational health management model with numerous attractive options, such as our university sports programme
- Supplementary pension scheme (RZVK)
- Discounted tickets on local public transport services ('Job-Ticket' of the saarVV)

We look forward to receiving your **meaningful online application** (in a PDF file) by **22.10.2025** to **kathrin.flasskamp@uni-saarland.de**. Please include the reference number W2725 in the subject line of the e-mail.

If you have any **questions**, please contact us for assistance. Your contact:
Frau Prof. Dr. Kathrin Flaßkamp (kathrin.flasskamp@uni-saarland.de)
Chair of Systems Modeling and Simulation. Systems Engineering Department. Saarland University
Tel.: +49 681 302 4416

Pay grade classification is based on the particular details of the position held and the extent to which the applicant meets the requirements of the pay grade within the TV-L salary scale. Part-time employment is generally possible.

If you have obtained a foreign university degree, a proof of the equivalence of this degree with a German degree by the Zentralstelle für ausländisches Bildungswesen (ZAB) is needed before hiring. If necessary, please apply for this in time. You can find more information at https://www.kmk.org/zeugnisbewertung.

Unfortunately, neither costs for attending an interview at Saarland University nor costs for any certificate evaluation by the ZAB can be reimbursed in principle.

We welcome applications regardless of gender, nationality, ethnic and social origin, religion/belief, disability, age, and sexual orientation and identity. In accordance with its policy of increasing the proportion of women, the University actively encourages applications from women. Applications from severely disabled persons will be given preferential consideration in the event of equal suitability.

When you submit a job application to Saarland University you will be transmitting personal data. Please refer to our privacy notice for information on how we collect and process personal data in accordance with Art. 13 of the Datenschutz-Grundverordnung. By submitting your application you confirm that you have taken note of the information in the Saarland University privacy notice.