

## **Multiple PhD Positions**

### **Our Profile:**

Our lab, led by Dr. Bassam Alrifaae, specializes in intelligent control of autonomous systems, with a particular focus on multi-agent systems. Our research spans distributed predictive control, service-oriented software architectures, localization systems, and applications to connected and automated vehicles (CAVs). We strive to contribute not only to the safety and performance of these systems but also to their environmental impact. Funded by public organizations and industrial partners, we engage in various projects in this dynamic research area.

Embracing diversity, equity, and Inclusion, we recognize that multiple, different perspectives and backgrounds are important for advancing our research goals. Additionally, our commitment extends to education, and we actively value and contribute to teaching. Through this multifaceted approach, we aim to foster a holistic environment that integrates cutting-edge research, diversity, and educational excellence.

### **About the Position:**

We are offering multiple PhD positions with a specific focus on learning-based control or software architectures, as well as their applications to planning-related or energy-related aspects in CAVs. This opportunity is tailored for recent Masters graduates who are passionate about advancing research in autonomous systems. We actively support the scientific and personal development of our team members.

### **Your Profile:**

- Completed Masters in automation engineering, robotics, computer science, or a related discipline.
- Knowledge in our research fields is advantageous.
- Commitment to fostering a collaborative team spirit.
- Enjoyment of interdisciplinary research.

### **Your Tasks:**

As a PhD candidate in our lab, you will build upon existing research and contribute to ongoing projects, providing a solid foundation for your scientific development. Collaboration with leading international researchers awaits you, offering rich learning experiences. Additionally, active participation in lab teaching activities and administration will be expected.

### **Our Offer:**

The position is available for immediate occupancy and is limited to a duration of up to 5 years. This is a full-time role, valued at EG 13 TVöD.

### **Instructions for Application:**

Please compile your application into a single PDF file, ensuring it is less than 5MB in size. Include the following documents:

- 1) Cover letter, including research, teaching statements, and a statement of contributions to diversity, equity, and inclusion (maximum 300 words)
- 2) CV and certificates
- 3) List of two references

Please submit your application before March 31 to [bassam.alrifaee@rwth-aachen.de](mailto:bassam.alrifaee@rwth-aachen.de) with the subject line "Application PhD."

We encourage prospective candidates to reach out with any questions or for further clarification. We look forward to welcoming enthusiastic and dedicated individuals to our team.