

The following position is currently available

Research associate (m/w/d)
in the project „Dynamic scheduling of interacting automated VTOLs“
(Salary level E 13 TVöD)

The University of Bundeswehr Munich is an university with many national and international collaborations. The university possesses all the necessary infrastructure to guarantee the high quality teaching and research.

The project aims at the development of an efficient numerical framework for dynamic scheduling of a small fleet of vertical take-off and landing vehicles (VTOLs). The goal is to couple scheduling problems and dynamic path planning in a bi-level optimization approach. Applications arise at busy terminals, during long-term observation missions, or in logistics and transportation.

What you will do:

- Develop real-time framework for dynamic scheduling of VTOLs
- Implement and test developed algorithms at our facilities
- Collaborate with other research groups to extend the applications

What we expect from you:

- Master's degree in Mathematics, Applied Mathematics or Engineering with the focus on Control theory with a very good track record
- Advanced training in Optimization, Optimal control or Control theory
- Good C/C++ knowledge
- Ability to manage multiple tasks and thrive in a fast-paced team environment
- Excellent analytical skills, with strong attention to detail
- Strong written and verbal communication skills in English and German (optional, but is a plus)

What we offer:

- Diverse application projects with modern infrastructure
- Research in a highly motivated international team
- Option to write a PhD thesis

Interested?

Please send us your application including relevant documents (cover letter, CV, diplomas, transcript of records) in PDF format to: matthias.gerdt@unibw.de