

Open PhD Scholarship (f/m/d)

The PhD scholarship is part of the Munich Aerospace Research Group

“Dynamic Vehicle Routing with Time Synchronization under Uncertainties”.

The Munich Aerospace Research Group comprises PhD scholars and further members from the Chair of Flight System Dynamics of the TU Munich and the Engineering Mathematics group at the University of the Bundeswehr Munich. A close collaboration within the research group is expected.

The advertised PhD scholarship will be affiliated to the Engineering Mathematics Group at the University of the Bundeswehr Munich. Our interdisciplinary team of mathematicians and engineers develops methods for simulating, optimizing, and controlling dynamic processes in engineering applications. To help you bring your ideas to life, the Engineering Mathematics Research Group and the University of the Bundeswehr Munich offer a research environment that is at the cutting edge of technology, with excellent laboratory facilities. The team will support you during your personal and scientific development. Want to be part of it? Then we look forward to receiving your application! Further details on the group can be found at <https://www.unibw.de/ingmathe>.

Your tasks:

- Development and implementation of a dynamic vehicle routing method for the coordination of multi-agent systems with time synchronization tasks
- Design of an optimization-based predictive path tracking controller
- Experimental validation with unmanned aerial vehicles (UAVs) and unmanned ground vehicles (UGVs)
- Self-responsible work on the research project
- Presentation and publication of scientific results

Your Qualification:

- Very good master's degree in mathematics, applied mathematics or a related engineering discipline
- Good background in applied control, optimal control, or optimization
- Good and efficient programming skills, preferably in C/C++
- Ability to work in a team on a scientific level
- Excellent English or German skills (German skills are beneficial)

Our offer:

Munich Aerospace scholarships are awarded for a period of up to three years. The monthly scholarship according to the Munich Aerospace scholarship directives is € 1,800 (tax free upon § 3 no. 44 EStG). Munich Aerospace scholarship holders are entitled to attend the Munich Aerospace Graduate School and have access to special events and trainings. An additional grant of up to € 3,400 per year will be available to cover research costs (e.g. textbooks, laptop, conference travels, etc.).

Interested?

Please send us your application including relevant documents (cover letter, CV, certificates, transcript of records) in PDF format until **31 Oktober 2026** to Júlia Csomor: stipendien@munich-aerospace.de.

We are looking forward to your application!