MUNICH AEROSPACE

Bauhaus Luftfahrt
Neue Wege.

The future of flying starts with us. And with you.

Re-think the way we fly. In an international think tank, at the highest professional level. With experts from various disciplines that come together in fascinating ways. Ready to always improve on the good, to think beyond the beaten path, constantly asking questions – and thereby challenge the pioneering spirit anew every day. In a young, modern working environment with open ears and doors.

That's who we are, Bauhaus Luftfahrt in Taufkirchen near Munich: around 50 colleagues whose work is backed by the four aviation companies, Airbus, IABG, Liebherr-Aerospace and MTU Aero Engines as well as the Free State of Bavaria. We investigate the future of mobility, particularly the long-term development of aviation. In doing so, we take into account technical, economic, social and ecological aspects equally.

Our benefits package encompasses a family-friendly flexitime agreement, an attractive salary package in the public tariff system with company pension provision and a range of health programmes.

Software Developer / Transportation Engineer / Aeronautical Engineer (m/f/d) as Munich Aerospace scholarship holder

in the field of Urban Air Mobility

Your tasks:
- In the team "Economics & Transportation" you will be responsible of maintaining and extending MATSim Urban Air Mobility simulation framework
- In cooperation with Bauhaus Luftfahrt colleagues, our industrial partners and international research institutes you will work on the method development for UAM fleet assignment, dispatching, pooling or airspace integration
- You will also integrate, test and validate developed methods within the MATSim framework
- You contribute your ideas in an interdisciplinary team to internal design projects as an software developer or engineer and as a specialist for modelling and simulation

Your qualifications:
- You have successfully completed your study in the area of software development, transportation or aeronautics and intend to obtain a PhD
- You have excellent programming qualities (e.g. JAVA) and good mathematical and analytical capabilities, and you are willing to acquaint yourself with new topics and tools
- Ideally you have knowledge with open-source platform MATSim as well as methods with regards to fleet assignment, dispatching, pooling and optimisation
- Reliability, preciseness, and self-reliance are among your strengths
- You are interested in target-oriented tasks and in working in an interdisciplinary team
- You are proficient in German and English