

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.

► Student (m/f/d) in Aerospace-/ Industrial-/ Mechanical- Engineering or Computer Science for a Master Thesis

in the field of Visionary Aircraft Concepts

Your tasks:

- The long-range hydrogen-powered aircraft concept developed in the group design project "HyShAir" has to be modeled and refined at the preliminary design level based on the latest research methods and findings in the areas of wing, fuselage, tank, and, if possible, powertrain design
- Based on this, the top-level aircraft parameters and integrated technology components should be varied to study the potential of each combination for feasible emission-neutral long-range flights with hydrogen
- These results should be compared to a consistently designed reference aircraft

Your qualifications:

- You are an enrolled student in aerospace-, industrial-, mechanical engineering or computer science with a technical background or another related field
- You have already gained experience in aircraft design, aerodynamics, structural mechanics, and ideally in powertrain design
- Knowledge of CPACS, TiGL, TiXI, and multidisciplinary optimization methods is a plus
- Creativity, reliability, accuracy, and a high degree of independence are among your strengths
- You have excellent mathematical and analytical skills, good programming skills in Python and MATLAB, and are willing to familiarise yourself with new topics and tools
- You possess a high level of spoken and written English



We look forward to receiving your application!

✉ application@bauhaus-luftfahrt.net

Please indicate the reference number 21-9-57.

As we wish to increase the share of women in the team, we would be particularly interested in receiving relevant applications. People with disabilities will be given priority in the case of equal qualifications.

Do you have any questions?

Michaela Richter will be happy to help:

☎ +49 89 3074-84919

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