

## 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 Engineering for a Master Thesis

Scope: Modelling of an on-board solid oxide fuel cell powering an all-electric subsystems aircraft configuration

#### Your tasks:

- You will start with a literature study into the theory of Solid Oxide Fuel Cells (SOFCs), modelling techniques and existing studies related to fuel cell – aircraft integration
- Based on the literature study findings, you develop a SOFC model and integrate it into an existing Python tool
- Through your model, you investigate and determine the optimal SOFC system layout, operating conditions, performance characteristics and identify fuel and waste heat management requirements for the all-electric aircraft
- As you progress, you will write an English documentation on your programming contributions, analyses as well as your results and conclusions

#### Your qualifications:

- You are a student (m/f/d) in aerospace engineering or a related field
- You are proficient in Python and version control systems (e.g. Git) and have a good understanding of software engineering principles
- Reliability, preciseness, and self-reliance are among your strengths
- You are interested in target-oriented tasks and working in an interdisciplinary team
- You are a proficient user of the English language



#### We look forward to receiving your application!

✉ [bewerbung@bauhaus-luftfahrt.net](mailto:bewerbung@bauhaus-luftfahrt.net)

Please indicate the reference number 21-9-48.

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:

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[www.bauhaus-luftfahrt.net/karriere](http://www.bauhaus-luftfahrt.net/karriere)