

## 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/ Thermal Engineering for a Master Thesis

Title: Design of a combined aircraft cooling and anti-icing system

#### Your tasks:

- You will define a thermodynamic model of a leading edge integrated cooler for a hybrid electric aircraft
- Your model will be capable of predicting secondary effects such as drag increments due to boundary layer heat injection
- You will implement the model into the python based thermal management system modelling framework
- With the model you will perform a multi-point assessment of the cooling and anti-icing potential for a hybrid electric aircraft

#### Your qualifications:

- You are a student (m/f/d) in Aerospace Engineering, Thermal Engineering or a related field
- You are skilled in thermodynamics, fluid dynamics and aerodynamics
- You have profound experience in computer programming in python
- Self-reliance, reliability and a high level of self-organization are among your strengths
- You thrive in a connected team environment and are eager to improve
- You possess a high level of spoken and written English



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

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

Please indicate the reference number 21-9-49.

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

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