## Multiple topics on flow control and aircraft aerodynamics Student thesis projects (Master Thesis / Studienarbeit)



## Design and characterization of high-lift system



- Design of high-lift system with trailing edge flap and droopnose for aircraft with laminar wing
- **Steps:** Introduction to TAU solver and transition prediction, design and simulation of 2D sections with high-lift devices, performance evaluation

## Characterization of a surface jet

- Test of surface jet performance for gust load alleviation
- **Steps:** Adaptation of internal flow geometry of existing model based on simulations and/or
- Modification and test of existing wind tunnel model with surface jet



Technische Universität Braunschweig



November 2023

**Contact Information:** Dr. André Bauknecht a.bauknecht@tu-bs.de Hermann-Blenk-Straße 37, Office No. 116