

Student Thesis Project (Master thesis / Studienarbeit)

Goal: Numerical investigation of a fluidic actuator system using scale-resolving simulations

Tasks:

- Literature survey on aircraft aerodynamics, active flow control for load alleviation, and scale-resolving numerical simulations
- Setup, execution and comparison of RANS- and LES-based simulations of at least one fluidic actuator system on an airfoil, including mesh generation and selection of appropriate simulation parameters

Requirements:

- Basic knowledge in aircraft aerodynamics and numerical methods
- Interest in practical application of numerical methods

