



The whole spectrum of applied aircraft design is being utilized from general structural engineering to efficient aerodynamics and electrical drivetrain layout. With a great range of the mentioned engineering fields, we are open to almost all disciplines of technical background.

The manned aircraft team is currently consisting of 6 academic positions and a varying number of students to work with.

In 2021 and 2022, the hybrid electric aircraft e-Genius flew a number of test flights including 12 new FAI world records for electrically driven aircraft. In 2024, the goal is to further develop and flight test the aircraft to enable electric and automated glider towing with an upgraded primary propulsion system for higher power output.

Another ongoing project of the research group is the 1-seat solar aircraft icaré 2. The aircraft is planned to be modified with a distributed propulsion system of 7 motors. Focus of the investigation is the effect on the operation of the aircraft with distributed electric propulsion, and the specification of the human-machine-interface necessary for such aircraft configurations. Further focus is to translate and extrapolate the efficiency and the application of the findings to future aircraft projects

Depending on the progress of the projects and most importantly on the skills and interest of the applicant, there will be tasks including mechanical and electrical integration aspects, subsystem design and most likely system optimization.

A structured and solution-oriented approach is expected. The work will be in close collaboration with the team.

