Working Student Flight Mechanical Analysis (m/f/d)

Vision

> ***We elevate critical missions.***

Mission

> ***Engineering the leading electrified aviation platform - made in Europe for those who protect, serve, and sustain what matters most.***

Our Company

ERC System is a Munich-based aviation startup that develops **electrified aviation solutions for the most critical missions**. The company's **hybrid-electric aircraft takes off vertically like a helicopter, but flies forward wingborne, like an airplane**. It provides high speeds, long ranges, and cost-efficient operations for

patient, passenger, and cargo transport. ERC's flagship product is a crewed, hybrid-electric lift-and-cruise aircraft optimized for interhospital patient transport.

Founded in 2020 by experienced aerospace professionals, ERC currently has approximately 60 employees and is **backed by aerospace powerhouse IABG**, a leading provider of testing and certification services for aircraft, spacecraft, and defense solutions. The team focuses on heads-down engineering, capital-efficient development, and designing aircraft that fulfill the highest customer and regulatory requirements. *Further information on: www.erc-system.com*

Profile description

Working Student (m/f/d) Flight Mechanical Analysis

Location: Ottobrunn (Munich) | Up to 20 h per week | Start: ASAP

Your Mission

We are looking for a passionate student to join our Flight Physics & Control team. As a working student, you will primarily contribute to flight mechanical analysis tasks. Specifically, you will work with our flight dynamics model, support us in advancing our code base, and perform and document analyses. The tasks comprise trimming and linearizing, investigating aircraft performance, deriving and validating system requirements, and more. You will work closely with the Flight Operations and Flight Controls teams, contributing to the analysis of test data from simulator and flight tests.

Your Profile

- Enrolled Master's student (m/f/d) in aerospace or a comparable technical course of study
- Strong background in flight mechanics
- Hands-on experience with MATLAB/Simulink
- Basic experience with Git or similar version control systems (preferred)
- Hands-on, self-driven and structured way of working

- Passion about electric aviation and novel aircraft concepts
- Excellent written and spoken English language skills.

Your Tasks

- Perform flight dynamics analyses of novel eVTOL concepts over the entire flight envelope from hover through transition to wingborne flight
- Contribute to our analysis and automation code base
- Support the generation of flight dynamics reports
- Collaborate with flight operations and controls teams
- Support with the analysis of simulator and flight test data

What We Offer

- **Innovation, security, and growth:** take on an important role in a financially stable European aerospace startup that is setting new standards.
- **Modern working environment:** hybrid working, a modern office in Ottobrunn, and top-of-the-line ergonomic equipment.
- **Development & Benefits:** EGYM Wellpass membership
- **Team & culture:** experience true startup spirit with flat hierarchies, fast decision-making processes, and regular team events.

Why Join Now?

- We work with the strongest rescue and defense partners in Europe and are **supported by our strategic investor IABG.**
- You will join our startup of approximately 60 employees during a crucial growth phase.
- You will contribute to the realization of an electrified aircraft for the most critical missions, from patient transport to military cargo transport.

Key Team Members

- **Ilja Pricker - Flight Mechanics Engineer** (www.linkedin.com/in/ilja-pricker-106a18212)

🚀 Take action and call us - Ready for take-off?

We look forward to receiving your application! Please send your CV to career@erc-system.com

Apply to career@erc-system.com

ERC System is committed to diversity and equal opportunity – we welcome applications from candidates of all backgrounds!