



**Our Mission: Contribute to a climate-neutral future by making Zero Emission Air Transport happen!**

Therefore, we need **you** as a staff member for our EASA Part 21J design organization in the function

## **Electric Systems Engineer (m / f / d)**

We are pioneering in the field zero emission aircrafts and on track to bring the first certified emission free aircraft into the market. We believe that the key technologies developed by APUS will play a decisive role in the future of aviation and redefine the state of the art.

You want to actively shape and contribute to a climate neutral future?

You are a team player, creative, dedicated, thinking outside of the box?

Be part of our journey and make zero emission aviation happen as part of our team!

We are looking forward to applications from mothers, fathers, people with disabilities and people from the LGBTQIA+ community. Our office and workshop are completely barrier free. We are located just 400m from a barrier free S-Bahn station and do have barrier free parking lots.

Our transparent, dynamic, and creative way of working will inspire you. You will quickly be swept away and feel at home with us.

You care for us, we care for you! Beside many other benefits we offer:

- **Family friendly:** We support Parents with flexible Scheduling, Home Office and child sick days.
- **We support you:** We want you to feel home asap and help you getting settled with a flat or assist in any bureaucracy acts required with local or national authorities.
- **Home Office:** We offer partial remote work. Feel free to ask during the interview for the modus which fits best for you and your position.
- **Further education:** We offer a series of in house aviation engineering related education programmes. In addition, we support you with targeted training that let you develop personally and professionally.
- **Accessible Aviation:** we believe that every developer of aviation needs to have the chance to life and feel aviation and the product.
  - **You are a pilot?** We have a pool of aircrafts accessible to our team!
  - **Want to become a pilot?** We are happy to assist you in becoming a private pilot yourself! Being located at the airfield, a training flight is never more than 5 minutes away!
  - **Just fly?** We get anyone airborne, be it a business trip with our aircrafts or the recreational flight with a gorgeous team member after work.
- **Teambuilding and more:** We do legendary company trips every year and create family days to get to know the team behind you 😊.



You will design electronic circuits according to requirements and boundary conditions. For this task you choose electronic parts, simulate the circuits, develop the PCB, build Prototypes and test them. You are responsible for correct installation of electronic parts in test beds and aircraft prototypes. On top, you will be a central point of knowledge and an important and valued discussion partner, actively steering electronic development in a small but fast growing team.

#### Your tasks

- **Design and specification** of electrical subsystems in the powerplant and avionics system of the aircraft
- **Design and definition** of airborne electronic hardware incl. PCB's, housings, etc.
- **Design and implementation** of airborne software for powerplant and avionics systems of aircrafts
- **Definition and management** of electrical, mechanical and software interfaces of subsystems or components
- **Creation of technical documentation** (wiring diagrams, integration drawings, CAD models, ...) and preparation of compliance reports
- **Planning & conduction** of subsystem and complete system tests incl. Documentation
- **Requirements development**, tracking & verification as part of the design assurance process
- **Assist in development** of airborne electronic software

#### Your profile

- **Tools:** Good knowledge of PCB design process, electronic CAD and simulation tools, preferably EAGLE in Linux OS.
- **Electronic:** In-depth electronic knowledge like standard circuits and how they work.
- **Sensors:** Knowledge of data acquisition from sensors (RTD, LC, Flow, Pressure)
- **Software Development:** Basics in software programming (Python, C)
- **Degree:** Engineering degree with focus on electrical engineering, robotics, aerospace engineering, IHK Elektroniker or other relevant degree
- **You have** the ability to quickly understand complex systems
- **You are** interested in aviation and have a passion for emission-free mobility

#### Beneficial but not required:

- **Busses, Protocols:** Knowledge of CAN-Bus Protocols, RS232 Interfaces, UDP, sensor data acquisition
- **MCU Software Development:** Experience in Programming MCU, preferably STM32
- **Experience:** Working experience in aviation / PART 21J environment with focus on software / electronics
- **Knowledge:** Good knowledge of airworthiness requirements and standards (CS-23, ARP4754A, ARP4761, DO-254, DO-160G etc.)
- **License:** Pilot license/experience



Application deadline: 31.01.2023  
Preferred start of work: at short notice  
Vacancy reference ID / date: #25 / 20.12.2022

Contact

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