



Job Description

Avionics engineer

Key Responsibilities

Design, Development and integration of avionics systems for suborbital space planes. Candidate will be responsible for but not limited to the following tasks:

- Design and integrate key avionics systems from COTS or in-house developed subsystems and components
- Develop baseline requirements for avionics on component and system level
- Conduct simulations of avionics systems
- Verify and validate avionics in function and flight tests
- Design, support and conduct flight tests
- Collect and analyze data from flight tests
- Assist in systems integration and space plane assembly
- Conduct market research for suitable components
- Coordinate with suppliers for component and software development

Required/Essential Skills

- Extensive knowledge of UAV, aircraft and/or spacecraft avionics systems and components
- Experience of system design and integration
- Able to plan and conduct V&V tests for avionics
- Extensive knowledge of communication buses and protocols
- Able to do routing design for vehicle wiring.
- Able to draw and read wiring diagrams and schematics
- Bachelor's degree from an accredited institution, with concentration in Aeronautical, Astronautical, Aerospace, Automation, Electronics, Telecommunication, or Electrical Engineering

General Skills and Competencies

- English proficiency (equal or above TOEIC 550, TOEFL iBT 57 points)
- Able to find, analyze and solve problems independently
- Proactive and have flexibility to move and/or support other teams
- Capable of working under pressure and for extended hours when necessary
- Capable of working in fast paced dynamic environment
- Capable of making of and adapting to quick design changes.

Preferred Skills and Experience

- Master's degree from an accredited institution, with concentration in Aeronautical, Astronautical, Aerospace, Automation, Electronics, Telecommunication, or Electrical Engineering
- Knowledgeable in basics of flight dynamics and mechanisms of airplanes and rockets
- Programming experience in C, C++, Python, FORTRAN, Matlab (Simulink, stateflow)
- Experience working with FPGAs, single board microcontrollers and microcomputers
- General knowledge of CAD, control engineering, radio frequency engineering, antennas, flight test experiment.
- Able to craft and build test parts and equipment by hand
- Knowledge of Japanese is not required but useful

Location

Hekinan city, Aichi prefecture, Japan. Occasional trip and short term stay may be required.

Intake process

Download required application documents on the link below

Fill documents and send to careers@pdas.co.jp

https://pdas.co.jp/documents/PDAS_member_documents-set.zip

Candidate that pass document screening will be contacted to schedule interview.

Please address any question to careers@pdas.co.jp

About PD Aerospace

PD Aerospace is a space start-up company that was founded in 2007. PD Aerospace is developing a fully reusable space plane equipped with original technology engine (technology successfully tested in 2017). PD Aerospace is currently developing unmanned space plane to cultivate core technology and planned to start commercial manned spaceflight.