



Job Description

Control and simulation engineer

Key Responsibilities

Development of autonomous GNC system for suborbital space planes with a focus on control logic / law creation. Candidate will be responsible for but not limited to the following tasks:

- Develop GNC system, especially control logic and control law for manual, assisted and autopilot flight
- Perform simulations of the GNC system on SILS and HILS
- Assist in flight testing
- Collect and analyze data from flight tests
- Assist in systems integration and space plane assembly

Required/Essential Skills

- Experience of control logic and control law development and autopilot tuning
- Understanding of PID and adaptive control methods
- Knowledge of aerodynamics
- Experience of electronics engineering, especially signal processing and instrumentation
- Able to create and improve simulation models (Matlab Simulink, etc.)
- Able to 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 avionics of airplanes and rockets
- General knowledge of CAD, radio frequency engineering, antenna systems, flight test experiment.
- Able to program in C, C++ or Python
- Knowledge of Japanese is not required but useful
- Piloting experience (manned or unmanned planes)

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.