Job Description
Electronics & Software Engineer

Key Responsibilities

Develop engine test bed control software suite and required electronics for pulse detonation engine. Candidate will be responsible for but not limited to the following tasks:

- Design and develop algorithms required for engine test bed control system
- Code software for control system of experiment engine test bed
- Troubleshoot engine test bed code and electronics
- Integrate, validate and test engine software and electronic components
- Design, support and conduct engine test firing
- Assist in space plane assembly
- Coordinate with suppliers for outsourced electronic components

Required/Essential Skills

- Strong understanding and extensive experience designing and programming algorithms in C, C++, Matlab, Python, or FORTRAN
- Able to create customized circuit board (soldering proficiency)
- Familiar with software development milestone management
- Experience in designing and integration of electrical/electronic boards and components
- Experience with designing control engineering systems
- Able to craft and build test parts and equipment by hand
- Bachelor's degree from an accredited institution, with concentration in Electrical Engineering, Electronic Engineering, Aeronautical, Astronautical, or Software 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 Electrical Engineering, Electronic Engineering, Aeronautical, Astronautical, or Software Engineering
- Knowledgeable in basics of flight dynamics, mechanism and avionics of airplane and rocket
- General knowledge and experience in CAD
- Experience in piloting RC/Drone (fixed wing)
- 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 info@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 info@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.