



Job Description

Aerodynamics Engineer

Key Responsibilities

Conduct aerodynamics and thermodynamics design and analysis to support future UAV and suborbital space plane development. Candidate will be responsible for but not limited to the following tasks:

- Conduct sub-sonic and supersonic aerodynamics design and analysis
- Conduct thermodynamics analysis and help with materials design
- Establishes computational methods and tools for the analyses
- Cooperate with external research entities for successful analyses
- Design, support and conduct flight tests
- Collect and analyze data from flight tests
- Assist in systems integration and space plane assembly

Required/Essential Skills

- Strong understanding of computational fluid dynamics
- Strong understanding in thermodynamics, fluid dynamics and flight dynamics of airplanes and rockets
- Extensive experience in aerodynamics design
- Knowledgeable in basics of mechanisms and avionics of airplanes and rockets
- Experienced in CAE design (3D CAD software proficiency)
- Ability to read and draw technical/manufacturing drawings
- Bachelor's degree from an accredited institution, with concentration in Aeronautical, Astronautical, Aerospace, Automation, Electronics, Telecommunication, or Mechanical 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 Mechanical Engineering
- General knowledge in mechanical system design, programming languages and materials engineering
- 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 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.