SPOTTED
RECRUIT

SERGIO OBRA LORENTE

Recruitment Consultant

JOB DESCRIPTION

iSpace【Structural Design and Analysis Engineer】

Missions to the Moon

iSpace is an awarded SpaceTech company with branches in US and Europe that is developing and executing missions to the moon to localize natural resources with the goal of establishing a settlement in less than 20 years. Moreover, they also work in collaboration with organizations like SpaceX, NASA or JAXA.

Currently, they are urgently looking for an Embedded Software Architect with strong experience designing and coding embedded software and strong leadership and communication skills. This person will be responsible for developing embedded software systems for spacecraft and leading the software engineers in the design activities for current and future spacecraft software architectures.

This is a unique opportunity to be part of an authentic Space adventure with a diverse and talented team, and work in the development of cutting edge space tech from a leading position.

Information

Position Title | **Structural Design and Analysis Engineer**

Type of Contract | **Permanent Full Time**

Salary | **Budget negotiable according to experience and interview performance.**

Company Location | **Tokyo, Japan**

Responsibilities

- Support the structural and/or thermal design efforts for spacecraft system development including lander and other transportation system elements.
- Design structural components of the lander with conducting structural and/or thermal computational analyses.
- Support the completion of the component design specification and the design reviews.
- Support preliminary design including trade studies, material, component, manufacturing process selection, and design validation.
- Support the test preparation of test plan, the report, the analyses of test data, and the JIG designs for component and system tests.
- Evaluate nonconformance materials from design and analysis perspectives and prepare the report.
- Support detailed design of the lander system for structural, thermal, and operational performance.
- Supporting other engineers' analyses by providing and simplifying 3D models.
- Support rapid prototyping, hardware assembly, integrating and testing including travel to test sites.
- Report to the team lead and the group manager.
- Maintain proactive coordination between teams to balance and achieve project goals.

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Requirements

- Hold BS and/or MS in mechanical engineering, aerospace engineering, or equivalent.
- Have more than 3 years of experience in the design analysis for aerospace or aviation applications with use of FEM computational tools.
- Have the experiences in making a strong logic and/or finding a solution through the discussions with non-Japanese companies or agencies (i.e NASA, ESA, FAA).
- Have the experiences in the documentations in English.
- Have excellent interpersonal, organizational, and communication skills.
- Be comfortable with change, a fast-paced environment, and learning new things.
- Proactive attitude, team player, and strong responsibility for own work.

Good to have

- Proficiency in Solidworks, FEmap, NASTRAN (or equivalent) software packages
- Have extensive experience with CAD software packages and drawing makings.
- Have knowledge of Geometric Dimension and Tolerance (GD&T) and of the stack-up calculation method for drawing tolerances (i.e. RSS).
- Have knowledge of mechanical design, material selection, and fabrication processes for spaceflight hardware or equivalent.
- Have experience of space environmental tests.
- Have experience in new industrial development projects in the aerospace or aviation field.