CareerCross by JAC Recruitment

ADVISORY GROUP

Senior R&D System Engineer

URGENT

Job Information

Recruiter
Advisory Group K.K.

Hiring Company
Aerospace Company

Job ID
1472144

Industry
Automobile and Parts

Company Type
Small/Medium Company (300 employees or less) - International Company

Non-Japanese Ratio
About half Japanese

Job Type
Permanent Full-time

Location
Tokyo - Other Areas

Salary
Negotiable, based on experience ~ 11 million yen

Refreshed
April 21st, 2025 02:00

General Requirements

Minimum Experience Level
Over 6 years

Career Level
Mid Career

Minimum English Level
Business Level (Amount Used: English usage about 75%)

Minimum Japanese Level
Daily Conversation

Minimum Education Level
Bachelor's Degree

Visa Status
Permission to work in Japan required

Job Description

As the Advanced Research & Development (ARD) Systems Engineer, you will play a vital role in two primary ARD projects:

1. **New Technology Development/Demonstration:**
    - Drive advancements in cutting-edge technologies.
    - Demonstrate the feasibility and functionality of new technologies.

2. **Next-Generation Lunar Transportation, Infrastructure, and Resource Utilization System Architecture:**
    - Lead the creation of system architectures from initial concept to the preliminary design level.
    - Contribute to the development of lunar transportation, infrastructure, and resource utilization systems for the next generation.

You will collaborate with a multidisciplinary team, contributing not only to the technical aspects but also providing valuable inputs to the business and finance sides. This includes defining initial costs and schedules. The role involves close collaboration with engineering teams across Japan, the EU, and the US, influencing and shaping the company's R&D direction.

Key Responsibilities

1. **Systemic Analysis:**
    - Lead and perform in-depth systemic analysis of key technologies aligned with the company's R&D roadmap.
    - Report the value of technologies within the context of lunar transportation and cislunar ecosystem development.
2. **Tradespace Analysis:**
    - Conduct tradespace analysis to effectively integrate R&D developments into landers, orbiters, and rovers.
    - Enhance mission value through strategic integration.
3. **Project Implementation:**
    - Work closely with cross-functional teams to implement selected R&D projects.
    - Oversee technology demonstration projects and customer servicing initiatives.

Required Skills

- **Minimum 6 Years Work Experience:**
    - At least 3+ years in systems engineering for space projects.
    - At least 3+ years in one or more spacecraft design fields: structures, thermal, power, communications, GNC, flight dynamics.
    - Working experience with modeling and optimization tools (GMAT, STK, Catia, Thermal Desktop, link budget simulation, etc).
    - Programming language experience (Python, C, C++).

- **Additional Preferred Qualifications:**
    - Working experience with composite materials and their structural/thermal properties.
    - Expertise in deployable technologies and flexible modes (panels, antennas, etc).
    - Familiarity with radio-active heating/powering units.
    - Knowledge of interoperable nodes constellation design (intersatellite link, PNT, communication coverage).
    - Experience in In-Situ Resource Utilization (ISRU) projects.
    - 3+ years of experience with Python.
    - Experience in systems engineering applying the Model Based Systems Engineering (MBSE) approach.

Company Description