Test & Commissioning Engineer_Junior level

Job Information

Recruiter
PROGRE Ltd

Hiring Company
commercialization companyof fusion energy

Job ID
1621823

Industry
Other (Infrastructure)

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

Non-Japanese Ratio
About half Japanese

Job Type
Permanent Full-time

Location
Shiga Prefecture, Taka-shi Ma-shi

Salary
4 million yen ~ 6 million yen

Work Hours
9:00 - 18:00

Refreshed
November 10th, 2026 11:30

General Requirements

Minimum Experience Level
Over 3 years

Career Level
Mid Career

Minimum English Level
Business Level (Amount Used: English Only)

Minimum Japanese Level
None

Minimum Education Level
Technical/Vocational College

Visa Status
Permission to work in Japan required

Job Description

This role is about more than testing equipment. You will be responsible for ensuring that our systems perform as designed and for seeing them through to successful operation at the customer site. As the final technical checkpoint before delivery, you will play a critical role in ensuring the performance, reliability, and quality of everything we deliver.

Our # Mission is to make fusion energy a practical and sustainable energy source. Achieving this requires not only cutting-edge technology, but also the expertise to ensure that it performs reliably in the real world.

We are looking for someone who wants to take ownership of that final, critical stage — helping bring our technology from development into operation and contributing directly to the commercialization of fusion energy.

Key Responsibilities

- Develop test plans and procedures for gyrotron systems, including the design of test fixtures and instrumentation.
- Perform millimeter-wave measurements, including output power, frequency, mode patterns, reflected power, and arc detection, and analyze the resulting data.
- Conduct conditioning operations across the full system, including high-voltage, vacuum, and cooling subsystems, and optimize voltage ramp-up sequences.
- Serve as the responsible on-site engineer for Factory Acceptance Testing (FAT) in Japan, as well as Site Acceptance Testing (SAT) and com# Missioning at overseas customer sites.
- Plan the start-up and safety design of new test facilities, including irradiation test ranges, beam dumps, shielding, and interlock systems.
- Compile and analyze test data, prepare technical reports, and feed findings and lessons learned back into the engineering and design teams.

*Given the broad scope of this role, your specific responsibilities will be determined based on your experience, expertise, and areas of strength.

Required Skills

Required Skills and Experience

・Testing and commissioning of industrial equipment, electrical systems, or research facilities
・ Project engineering for large-scale equipment, from test planning through commissioning and handover
・Design and development of measurement systems, including data acquisition and analysis
・Electrical measurement or the operation and handling of high-voltage equipment
・Preparation of test procedures, test documentation, and technical reports
・Willingness and ability to travel domestically and internationally, including several overseas trips per year for commissioning activities
・Intermediate English proficiency, with the ability to read and write technical documentation and participate in technical discussions and meetings in English

Preferred Skills and Experience

・Japanese language proficiency at JLPT N3 level or above

Experience or knowledge in any of the following areas is highly desirable:

・Millimeter-wave or microwave measurement experience (power measurement, mode patterns, network analyzers, etc.)
・Experience with conditioning operation of high-voltage or vacuum equipment
・Knowledge of design of experiments (DoE) and statistical data analysis
・Practical experience with Japan's Radio Act (experimental station licensing), RF exposureprotection guidelines, or the Technical Standards for Electrical Installations
・Knowledge of interlock and safety design (IEC 61508 or similar)
・Experience with thermal imaging or infrared thermography
・Certifications such as Chief Electrical Engineer (Denki Shunin Gijutsusha) or Radiation Protection Supervisor

Company Description