

Vacuum System Senior Technical Engineer

CEP-117

Reports to Line Manager:	Vacuum Section Leader, Fuel Cycle Engineering Division, Central Engineering and Plant Support Department	Job Code:	CEP-117
Direct Employment:	Required	Grade:	G6

Purpose

To provide specialist and practical high vacuum expertise in support of the many activities under the responsibility of the ITER Vacuum Section.

To train and lead the teams that will be created to meet the ITER vacuum acceptance and assembly testing requirements;

To prepare the vacuum related installation procedures and to coordinate the vacuum critical activities with vacuum test teams and ITER assembly teams.

china

eu

india

japan

korea

russia

usa

Major Duties/Responsibilities

During the initial period of assignment, the successful candidate shall have the necessary expertise and skills to take several functions among those listed below. In future and as the Vacuum Group develops, this position's duties and responsibility will be reviewed.

- Sets up and leads teams during the pre and post-assembly vacuum testing of vacuum components;
- Co-ordinates the layout of ITER roughing-pump systems and integrates the active maintenance scheme with tritium building services;
- Participates in the integration of pipe work for the Service Vacuum System in the Tokamak buildings.
- Contributes to the planning of assembly and test schemes for large quantities of vacuum related equipment;
- Contributes to the writing and review of ITER baseline documentation;
- Participates in the definition and monitoring of vacuum related R&D contracts with the Industry;
- Assists Domestic Agencies or suppliers to understand and apply the ITER requirements for component leak tests including witnessing of factory acceptance leakage testing at the suppliers' sites;
- Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.

Qualifications and Experience

- **Education:**
 - Degree at least equivalent to 4 years of study after the High School Diploma, in the Engineering field or other related discipline.

- ***Technical experience:***
 - At least 15 years' practical engineering experience including working in a complex high vacuum environment;
 - At least 5 years dealing with the construction of new ultra high vacuum equipment;
 - Good practical knowledge of leak testing, vacuum and gas distribution systems;
 - Experience working with demanding Quality Assurance standards for materials and welding including standards covering pressure equipment directives;
 - Experience working with tritium or in a nuclear environment;
 - Good knowledge of fabrication and welding techniques;
 - Willing to work shifts during the ITER assembly and commissioning phases.
- ***People Management experience:***
 - Proven ability to lead effectively some industrial teams and be sensitive to issues of performance and achievement in a multi-cultural environment.
- ***Social Skills:***
 - Ability to work effectively in a multi-cultural environment;
 - Ability to work in a team and to promote team work.
- ***Language requirements:***
 - Fluent in English (written and spoken).

Direct Supervisor and Interfaces

- Reports to the Vacuum Section Leader.

Authority / Approval Levels

This position has authority and approval levels generally defined by the Vacuum Section Leader for his/her scope of work.

Measures of Effectiveness

- Successfully implements guidelines and directives received from the Section Leader, DDG and the ITER Top Management;
- Successfully interfaces with the ITER divisions and Domestic Agencies and maintains good communication and relations;
- Successfully provides engineering support for the project;
- Successfully completes the tasks assigned under "Main Duties/ Responsibilities" above.