

IO1453 Vacuum System Engineer PSE-164

General information

Job category	Standard
Status	Published
Department	DIP/Directorate for Plant System Engineering

Job description

Main job	Engineering - Mechanics
Title of the position	Vacuum System Engineer PSE-164
Job family	Engineer - 1
Grade	P2
Direct employment	Not required
Purpose	<p>To further develop the Vacuum Systems engineering in order to detail the functional and physical interfaces between the Vacuum Systems and other systems and components;</p> <p>To ensure that the interfaces between components, sub-systems and procurements are properly recorded and managed so as to achieve the overall Vacuum Systems performance;</p> <p>To develop the Vacuum Systems interfacing in relation to total and partial machine assembly operations;</p> <p>To identify the thermal, electro mechanical and thermal-hydraulic related interactions between systems, so as to ensure the relevant protections and preparations for commissioning and operations.</p> <p>Supports the Functional Analysis of the Vacuum Systems;</p> <p>Ensures the development and maintenance of interfaces between the Vacuum Systems and other systems and for the management of interfaces between components and systems;</p> <p>Develops inputs to the design of the Vacuum Systems resulting from analysis of the interactions between systems;</p> <p>Responsible for compiling, updating and maintaining interfaces through documentation and databases;</p> <p>Develops protection schemes for investment protection and safety considering off-normal events;</p> <p>Analyzes configurations and provides strategies for vacuum sub-system installation and commissioning;</p> <p>Develops operational strategies and design configurations in line with the operational and construction phases of ITER;</p> <p>Contributes to the planning of assembly, test and maintenance schemes for vacuum related equipment;</p> <p>May be required to work shifts during the ITER assembly and commissioning phase;</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan;</p> <p>Performs other duties linked to the above purpose upon management request, as necessary;</p> <p>Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p> <p>Under the coordination of Vacuum Section Responsible Officers, reports to the Director of Plant System Engineering Directorate;</p> <p>Acts as an interfaces between the ITER Sections and Divisions and with Domestic Agencies;</p> <p>In response to requests from the Director-General and/or Director of Plant System Engineering (PSE), or proactively, informs the DG/Director of PSE Directorate of any important and urgent issues that cannot be handled by the concerned line management and may jeopardize the achievement of the Project's objectives.</p> <p>Clarity and thoroughness of engineering documents;</p> <p>Quality and efficiency on interfacing with the ITER divisions and Domestic Agencies, and maintaining good communication and relations;</p> <p>Works effectively in teams and contribute to the overall success of the ITER project;</p>
Main duties / Responsibilities	
Measures of effectiveness	<p>Successfully and efficiently completes the tasks assigned under Main Duties / Responsibilities above within the defined time frame;</p> <p>Performs work safely and with regard for safety in design.</p>

Applicant criteria

Level of study	Master or equivalent degree
Diploma	Mechanical or Systems Engineering field or other
Level of experience	At least 5 years
Technical experience	At least 5 years' system engineering experience including working in a complex high vacuum environment or equivalent industrial plants; Experience in commissioning and operations of vacuum systems; Experience working with demanding Quality Assurance standards for materials and welding; Experience working with hydrogen isotopes and/or in a nuclear environment would be an advantage.
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	Knowledge of high vacuum, cryogenics, gas distribution, thermodynamics, and thermo-hydraulics; Knowledge of high quality fabrication techniques.
Languages	English (Working)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	Desirable is knowledge on software for project management, CAD, document control and process modeling.