

IO1657 Tritium Plant Responsible Officer - PED-041

General information

Job category	Standard
Status	Published
Department	PED / Plant Engineering Department
Division	PED / Fuel Cycle Engineering Division
Section	PED / FCED / Tritium Plant Section

Job description

Main job	Engineering - Chemical engineering
Title of the position	Tritium Plant Responsible Officer - PED-041
Job family	Coordinating Engineer
Grade	P4
Direct employment	Required
Purpose	<p>To perform and oversee the design and manufacturing of the ITER Tokamak Exhaust Processing (TEP) system (part of the Tritium Plant). The work involves requirements definition and implementation, technical trade studies, gas processing system design, value engineering, interface management, safety analysis, control systems, document preparation, and contract management. This is followed by fabrication and procurement of the designed system. Work is performed in a formal, quality assured environment consistent with a nuclear facility.</p> <p>Is responsible for functional analysis and optimization of TEP system requirements and design solutions considering safety, risks, costs, and other constraints;</p> <p>Is responsible for compiling and maintaining design basis documentation and supporting documents using formal review procedures;</p> <p>Manages functional and physical interfaces insuring systems consistency and that the design results in harmonized, practical operation;</p> <p>Develops operational and maintenance strategies and design configurations;</p> <p>Develops and establishes installation, testing, and commissioning plans;</p> <p>Provides support for safety basis development and documentation;</p> <p>As much of the design/build work is performed by contractors, duties include contract administration including technical specification preparation, tendering and contractor guidance and monitoring.</p>
Main duties / Responsibilities	<p>Contributes to Fuel Cycle computer modelling;</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>May be requested to be part of any of the project team and performs other duties upon management request;</p> <p>Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics;</p> <p>Capacity to work on beryllium-containing components, following the established ITER Beryllium Management Program for working safely with beryllium.</p> <p>Reports to the Tritium Section Leader;</p> <p>Interfaces through the whole Fuel Cycle Engineering Division;</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 Head of Plant Engineering Department(PED), or proactively, informs the DG/Head of PED Department 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>
Measures of effectiveness	<p>Elaborates clear and thorough documents;</p> <p>Produces quality and timeless works;</p> <p>Finds practical, cost-effective, manageable and efficient solutions to issues;</p> <p>Communicates with personnel associated with interfacing systems and management;</p> <p>Performs work safely and with regard for safety in designs.</p>
	Project Construction Phase

Applicant criteria

Level of study	Master or equivalent degree
Diploma	Chemical or nuclear engineering
Level of experience	At least 10 years
Technical experience/knowledge	Good understanding of gas processing technologies, vacuum technology, hazardous and radioactive material handling.
	At least 10 years' experience relevant to engineering design, integration and commissioning of gas handling facilities;
	At least 5 years' proven success in complicated chemical processing system design and fabrication;
	Experience in large design/build projects through all phases, i.e. conceptual, preliminary and final design, followed by manufacturing, installation and commissioning;
	Demonstrated ability to write clear, well-organized technical documents in English;
	Knowledge and practical experience in chemical engineering technologies.
Social skills	Experience in hydrogen processing systems is desirable.
	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
Languages	English (Fluent)
Others	MS Office standard (Word, Excel, PowerPoint, Outlook)
	Project experience is advantageous CAD software (e.g. AVEVA)