

IO1658 Detritiation System Engineer - PED-040

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	Detritiation System Engineer - PED-040
Job family	Expert Engineer
Grade	P5
Direct employment	Required
Purpose	<p>To manage the design and manufacturing of the ITER atmosphere Detritiation System (DS) system (part of the Tritium Plant).</p> <p>To define requirements and implement them, develop technical trade studies, gas processing system design, value engineering, interface management, safety analysis, control systems design, document preparation, and contract management.</p> <p>This monitor the fabrication and procurement of the designed system in compliance with a nuclear facility quality assured environment.</p>
Main duties / Responsibilities	<p>Works within the guidance from the DS Project Board Japanese Domestic Agency and ITER Organization representation, and manages the DS design/build project;</p> <p>Assembles and supervises the activities to finalize and run the DS project;</p> <p>Ensures that the DS will perform the necessary functions to meet ITER safety objectives;</p> <p>Is responsible for functional analysis and optimization of 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 system 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> <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. In this case, you will be required to follow the established ITER Beryllium Management Program for working safely with beryllium.</p> <p>Reports to the Tritium Plant 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 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>Elaborates innovative, clear and thorough documents;</p> <p>Produces quality and timeless work;</p>

Measures of effectiveness	<p>Finds practical, cost-effective, manageable and efficient solutions to issues;</p> <p>Communicates efficiently 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	PhD or Master's Degree
Diploma	Chemical or nuclear engineering
Level of experience	At least 15 years
Technical experience/knowledge	<p>At least 15 years' experience relevant to engineering design, integration and commissioning of gas handling facilities;</p> <p>At least 10 years' proven success in coordinating complicated chemical processing system design and fabrication;</p> <p>Experience in large design/build projects through all phases, i.e. conceptual, preliminary and final design, followed by manufacturing, installation and commissioning;</p> <p>Demonstrated ability to write clear, well-organized technical documents in English;</p> <p>Experience in hydrogen processing systems is desirable;</p> <p>Experience with nuclear safety is desirable.</p>
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	<p>Good understanding of gas processing technologies, vacuum technology, hazardous and radioactive material handling;</p> <p>Knowledge and practical experience in chemical engineering technologies.</p>
Languages	<p>Ability to work effectively with system responsible officers and other team members;</p> <p>Ability to coordinate project</p>
Others	<p>English (Fluent)</p> <p>MS Office standard (Word, Excel, PowerPoint, Outlook)</p> <p>Project experience is advantageous</p> <p>CAD software (e.g. AVEVA)</p>