

IO1976 Vacuum Processes Technician PED-158

General information

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

Job description

Main job	Engineering - Vacuum technologies
Title of the position	Vacuum Processes Technician PED-158
Job family	Coordinating Technician
Grade	G5
Direct employment	No
Purpose	<p>To develop and update the process schematics and 3D models for the ITER Vacuum System.</p> <p>To produce and update Process Flow Diagrams, Piping and Instrumentation Diagrams, One Line Electrical diagrams, cabling diagrams and logic diagrams for the complete Vacuum System.</p> <p>To support the implementation and maintenance of the vacuum 3D CAD models.</p> <p>Responsible for production of vacuum processes 2D schematics P&ID according to functional and safety system performances;</p> <p>Produces intelligent Process Flow Diagrams (PFD), Piping and Instrumentation Diagrams (PID) and electrical schematics to international standards for the complete vacuum system;</p> <p>Produces process control logic and sequence diagrams for the operation of the various ITER vacuum systems;</p> <p>Contributes to the implementation and maintenance of vacuum 3D CAD models, consistent with vacuum processes schematics;</p> <p>Contributes to the implementation of relevant design metadata in CAD tools associated databases;</p> <p>Develops schemes for the generation of data for the installation and commissioning documents for the vacuum system;</p> <p>May be required to work outside ITER Organization reference working hours, including nights, weekends and public holidays;</p> <p>May be requested to be part of any of the ITER project teams and perform 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>
Main duties / Responsibilities	<p>Reports to Vacuum Section Leader;</p> <p>Acts as an interface between Vacuum and other technical Sections in the ITER Organization (IO) and with Domestic Agencies (DAs) and contractors;</p> <p>In response to requests from the Director-General and/or Plant Engineering Department (PED) Head , or proactively informs the DG/Director or Head of PED 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>Clarity and thoroughness of reports and drawings;</p> <p>Quality and timeliness of work products;</p> <p>Implementation of cost-effective, and efficient solutions in vacuum system process design;</p> <p>Quality of communication with personnel associated with interfacing systems and management;</p> <p>Ability to work effectively in teams and contribute to the overall success of the ITER project;</p> <p>Performing work safely and with regard for safety in designs.</p>

Applicant criteria

Level of study	Bachelor or equivalent degree
Diploma	Process Engineering or other relevant discipline
Level of experience	At least 7 years
Technical experience/knowledge	<p>At least 7 years' engineering experience including process engineering in a complex high technology engineering environment;</p> <p>Experience of working to international standards for process schematics production (PFD/P&ID), and electrical and cabling diagrams production;</p> <p>Mechanical and Plant design using CAD</p> <p>Extensive experience in similar jobs (involving similar work responsibilities) and/or additional training certificates in relevant domains may be considered a reasonable substitute for the required educational degree.</p>
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit, Ability to communicate effectively, Collaborative
General skills	<p>Ability to facilitate dialogue with a wide variety of contributors and stakeholders;</p> <p>Ability to listen and adjust communication content and style to deliver messages;</p> <p>Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.</p>
Languages	English (Fluent)
Specific skills	CATIA, Computer Aided Design, MS Office professional (Access, Project, Publisher, Visio), MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	<p>Knowledge of 2D CAD software for process modeling ideally SEE System Design, AVEVA instrumentation, SEE-Electrical Systems.</p> <p>Knowledge of 3D CAD software ideally CATIA, AVEVA (E3D).</p> <p>Microsoft Word, Excel, Access, Visio and PowerPoint.</p>