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## JOB DETAIL

Ref. IO1821 - 3/2/2017

## Mechanical Technician - PED-082

<b>Main job</b>	Mechanics
<b>Department</b>	PED / Plant Engineering Department
<b>Division</b>	PED / Fuel Cycle Engineering Division
<b>Section</b>	PED / FCED / Tritium Plant Section
<b>Job Family</b>	Technician - 3
<b>Application Deadline (MM/DD/YYYY)</b>	04/16/2017
<b>Grade</b>	G4
<b>Direct employment</b>	Required
<b>Purpose</b>	To prepare and contribute to the Fuel Cycle piping and plant systems design, integration, procurement and construction.
<b>Main duties / Responsibilities</b>	<ul style="list-style-type: none"> <li>-Prepares schematic drawings, PFDs, P&amp;IDS, 3D layout, BoMs and descriptive technical documentation for Fuel Cycle systems design and interfaces;</li> <li>-Designs system support structures and reviews load calculations and stress reports;</li> <li>-Designs distributed Detritiation System piping networks, including integration with Tokamak Complex and Hot Cell facility buildings and interfaces;</li> <li>-Supports management of material procurement, construction, installation and testing of Detritiation System pipe work within the joint IO/JA-DA Atmosphere Detritiation System Project;</li> <li>-Assists in integration and system interfaces functional analysis activities for the Tritium Plant and other related systems (e.g. Radiological and Environmental Monitoring, Vacuum Pumping Systems and Test Blanket Module);</li> <li>-Contributes to building and glove box layout, space utilization studies, assembly and installation studies, building and glove box penetrations and associated design;</li> <li>-Provides technical support in the preparation of technical specifications for external contracts;</li> <li>-Performs other duties in support of the project schedule;</li> <li>-May be requested to be part of any of the project/construction teams and to perform other duties;</li> <li>-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</li> </ul>
<b>Measures of effectiveness</b>	<ul style="list-style-type: none"> <li>-Reports to the Tritium Plant Section Leader;</li> <li>-Acts as an interface between the ITER Sections and Divisions and with Domestic Agencies;</li> <li>-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.</li> </ul>
	<ul style="list-style-type: none"> <li>-Elaborates clear and thorough documents;</li> <li>-Produces quality and timeless works;</li> <li>-Finds practical, cost-effective, manageable and efficient solutions to issues;</li> <li>-Communicates with personnel associated with interfacing systems and management;</li> <li>-Performs work safely and with regard for safety in designs.</li> </ul>
	Project Construction Phase
<b>Level of study</b>	Bachelor or equivalent degree
<b>Diploma</b>	Mechanical engineering design
<b>Level of experience</b>	At least 5 years
<b>Technical experience/knowledge</b>	<ul style="list-style-type: none"> <li>-Knowledge of plant design and construction in mechanical and piping fields;</li> <li>-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.</li> </ul>
	<ul style="list-style-type: none"> <li>-At least 5 years' experience relevant to mechanical piping and plant design, integration and construction of complex gas/liquid handling facilities;</li> <li>-Experience in large design/build projects through all phases, i.e. conceptual, preliminary and final design, followed by manufacturing, installation and commissioning.</li> </ul>
<b>Social skills</b>	Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit

<b>Specific skills</b>	Computer Aided Design MS Office standard (Word, Excel, PowerPoint, Outlook)
<b>General skills</b>	-Technical communication; -Ability to provide line management with technical & verbal reports; -Pro-active attitude in addressing issues; -Ability to communicate and negotiate within a team environment.
<b>Others</b>	-Excellent CAD capability (2d and 3d) , in particular AVEVA products as well as CATIA tool; -Stress Analysis software CAESAR II would be advantageous.
<b>Languages</b>	English (Fluent)

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