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JOB DETAIL

Ref. IO1787 - 11/16/2016

Vacuum Cryo-Pump Engineer - PED-068

Main job	Vacuum technologies
Department	PED / Plant Engineering Department
Division	PED / Fuel Cycle Engineering Division
Section	PED / FCED / Vacuum Section
Job Family	Engineer - 2
Application Deadline (MM/DD/YYYY)	12/29/2016
Grade	P3
Direct employment	Not required
Purpose	<p>-To be responsible for manufacturing, acceptance testing, installation and commissioning of ITER's large custom cryogenic pumps.</p> <p>-To prepare for the operation of the system of ~20 cryo-pumps.</p> <p>-To act as part of the vacuum team providing support to ensure ITER is built to the necessary vacuum standards and to schedule.</p>
Main duties / Responsibilities	<p>-Develops and supports the Procurement Arrangement for the manufacture of the torus and cryostat cryopumps to the ITER build to print design;</p> <p>-Follows the manufacturing of the torus, cryostat and neutral beam cryopumps;</p> <p>-Manages the documentation control in manufacturing ensuring that the control points in manufacturing and inspection plans are achieved;</p> <p>-Identifies and surveys critical activities in the manufacturing of the cryo-pumping systems;</p> <p>-Maintains and coordinates the interfaces of the cryo-pumping systems;</p> <p>-Prepares schemes and procedures for the installation of the cryo-pump;</p> <p>-Prepares the commissioning procedures, operational schemes and maintenance scenarios to ensure the cryo-pumping systems will operate reliably;</p> <p>-Prepares and performs commissioning of ITER's vacuum systems cryogenic components;</p> <p>-Performs other duties in support of the project schedule;</p> <p>-May be requested to be part of any of the project/construction teams and to perform other duties;</p> <p>-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p> <p>Special notice: May be requested 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. Full training and support will be provided by the ITER Organization.</p> <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 of 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>-Progresses contracts according to schedule;</p> <p>-Achieves components fabrication , installation and testing in line with ITER planning;</p> <p>-Controls interfaces and integrates vacuum components and systems with other pertinent ITER systems;</p> <p>-Coordinates and directs efforts of the IO and the DA's in respect to achieving component deliveries;</p> <p>-Communicates effectively with other Section in ITER on vacuum related issues.</p>

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	Project Construction Phase
Level of study	Master or equivalent degree
Diploma	Mechanical engin. or other relevant discipline
Level of experience	At least 8 years
Technical experience/knowledge	<div>-Excellent knowledge in vacuum and cryogenic design; -Knowledge in the inspection and qualification methods of welded joints; -Knowledge in the preparation of technical specifications; -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. -At least 8 years' experience in manufacturing of bespoke vacuum or cryogenic components; -Experience of working with pressure equipment directives and standards; -Experience in engineering in harsh and nuclear environments; -Experience in commissioning preferable of vacuum systems or cryogenic systems.</div>
Social skills	Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit
Specific skills	Computer Aided Design MS Office standard (Word, Excel, PowerPoint, Outlook)
General skills	-Experience in managing manufacturing contracts for vacuum or cryogenic components and systems; -Project Management experience is required.
Languages	English (Fluent)
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