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JOB DETAIL

Ref. IO1685 - 4/14/2016

Vacuum Design Technician PED-042

Main job	Vacuum technologies
Department	PED / Plant Engineering Department
Division	PED / Fuel Cycle Engineering Division
Section	PED / FCED / Vacuum Section
Job Family	Coordinating Technician
Application Deadline (MM/DD/YYYY)	05/15/2016
Grade	G5
Direct employment	Not required
Purpose	<p>- To support the completion of the design and integration of the ITER vacuum systems, providing cross project support need to achieve vacuum standards and contributing to the design/construction of parts of the vacuum procurements. Particularly to provide technical support in the areas of vacuum leak testing – defining vacuum qualification methodologies, preparing procedures and designing gigs and equipment for leak & pressure tests. In addition the ITER project has vacuum laboratory facility to support the construction of the ITER machine and in which vacuum qualification/assembly components is performed. The successful candidate shall support activities in the ITER Vacuum Laboratory.</p> <p>- Participates in the design, following manufacturing, construction and commissioning of ITER vacuum systems which cover the ITER vacuum vessel, cryostat, neutral beams and auxiliary vacuum systems;</p>
Main duties / Responsibilities	<p>- Designs and fabricates vacuum leak and pressure test tooling required to test ITER vacuum components and systems;</p> <p>- Participates in the assessment of designs of vacuum components and systems to ensure leak testability at all stages of manufacture and installation;</p> <p>- Defines leak testing methodologies appropriate to qualify vacuum components and systems with respect to leak performance;</p> <p>- Prepares leak testing procedures in line with ITER Organization (IO) and European norms (EN) standards;</p> <p>- Witness leak testing operations as part of acceptance tests at the ITER Organization (IO), Domestic Agencies (DAs) and Industrial Suppliers premises;</p> <p>- Reviews vacuum leak detection studies for onsite acceptance and assembly testing;</p> <p>- Sets up and performs vacuum test and qualification activities in the ITER Vacuum Laboratory and prepares and executes vacuum test equipment maintenance schedules;</p> <p>- Supports the implementation of vacuum standards and standardization across the project;</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>- May be requested to work shifts during the ITER assembly and commissioning phases.</p> <p>- Reports to the Vacuum Section Leader;</p> <p>- Interfaces between the ITER Sections, to ITER Project teams 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	<div><div>- Elaborates clarity and thoroughness of engineering documents;</div><div>- Provides quality and efficiency on interfacing with other ITER project departments and Domestic Agencies, and maintaining good communication and relations;</div><div>- Works effectively in teams and contribute to the overall success of the ITER project;</div><div>- Successfully and efficiently completes the tasks assigned under "Main Duties / Responsibilities" above within the defined time frame;</div><div>- Performs work safely and with regard for safety in design.</div></div> <div>Project construction phase</div>
Level of study	At least Bachelor's degree or equivalent
Diploma	Engineering or equivalent in other relevant discip
Level of experience	At least 7 years
Technical experience/knowledge	<div><div>- Qualified in NDT at least COFREND 2 or equivalent experience;</div><div>- Knowledge of vacuum system and cryogenic design;</div><div>- Knowledge of leak detection and localization methods;</div><div>- Knowledge of fabrication processes particularly in SS welding;</div><div>- Knowledge of CAD.</div></div> <div><div>- At least 7 years engineering experience in industry or on large complex construction projects;</div><div>- At least 5 years' experience in leak detection techniques specializing in helium tracer gas leak detection;</div><div>- Experience in the working within a laboratory or workshop facility, including coordinating activities;</div><div>- Experience in the operation of high vacuum and cryogenic equipment including the performance and reporting of vacuum outgassing tests;</div><div>- Ability to produce high quality analysis reports in English.</div></div>
Social skills	<div>Ability to work effectively in a multi-cultural environment</div> <div>Ability to work in a team and to promote team spirit</div>
Specific skills	<div>MS Office professional (Access, Project, Publisher, Visio)</div> <div>MS Office standard (Word, Excel, PowerPoint, Outlook)</div>
General skills	<div>- Able to work autonomously and as part of a team;</div> <div>- Good presentation skills;</div> <div>- Ability to lead small teams of technicians.</div>
Others	<div>- Microsoft Word, Excel, Access, Visio and PowerPoint;</div> <div>- Knowledge of CAD and other engineering software relevant for a large construction project.</div>
Languages	English (Fluent)
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