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JOB DETAIL

Ref. IO1811 - 3/23/2017

Vacuum Process Engineer - PED-076

Main job	Vacuum technologies
Department	PED / Plant Engineering Department
Division	PED / Fuel Cycle Engineering Division
Section	PED / FCED / Vacuum Section
Job Family	Coordinating Engineer
Application Deadline (MM/DD/YYYY)	04/04/2017
Grade	P4
Direct employment	Not required
Purpose	-To design, procure and prepare the installation and commissioning of the ITER mechanical roughing system. -To implement the necessary vacuum standards.
Main duties / Responsibilities	-Develops and follows the Procurement Arrangement for the manufacture of the mechanical roughing system; -Manages contracts for mechanical roughing pump development and validation; -Manages the control points in manufacturing and inspection plans; -Identifies and surveys critical activities in the manufacturing of the mechanical roughing systems; -Maintains and coordinates the interfaces of the roughing system; -Prepares schemes and procedures for the installation of the roughing room; -Prepares the commissioning procedures, operational schemes and maintenance scenarios to ensure the roughing system will operate reliably; -Performs and coordinates the commissioning of the roughing system; -Builds the safety cases for the operations of the roughing system; -Performs other duties in support of the project schedule; -May be requested to be part of any of the project/construction teams and to perform other duties; -Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics. -Reports to the Vacuum Section Leader; -Acts as an interface between Vacuum and other technical sections in the ITER Organization (IO) and with Domestic Agencies (DAs) and contractors; -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.
Measures of effectiveness	-Progresses contracts according to schedule ; -Achieves components fabrication , installation and testing in line with ITER planning; -Controls interfaces and integrates vacuum components and systems with other pertinent ITER systems; -Coordinates and directs efforts of the IO and the DA's in respect to achieving component deliveries; -Communicates effectively with other Section in ITER on vacuum related issues.
	Project Construction Phase
Level of study	Master or equivalent degree
Diploma	Mechanical eng. or other relevant discipline
Level of experience	At least 10 years
Technical experience/knowledge	-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 10 years' mechanical engineering experience; -At least 5 years' experience in mechanical vacuum pump development or other relevant rotating machines; -Excellent knowledge in vacuum and mechanical vacuum pump design; -Knowledge of gas dynamics and light gas pumping; -Knowledge in the preparation of technical specifications. -Experience of working with pressure equipment directives

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and standards;
-Experience in handling hydrogen or other hazardous gasses;
-Experience of engineering for in harsh and nuclear environments;
-Experience in commissioning preferable of vacuum systems.

-Experience in managing manufacturing contracts for high technology components;
-Project Management experience is required.

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)

Languages English (Fluent)

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