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JOB DETAIL

Ref. IO1819 - 2/23/2017

Vacuum Mechanical Engineer - PED-015

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	<p>-To be responsible for the mechanical design of vacuum system components from their preliminary design phase through to installation and commissioning.</p> <p>-To ensure their validations and that code, safety, and performance requirements are satisfied through their life cycle.</p> <p>-To be specifically responsible as Technical Responsible Officer for the Tokamak dust filtering system from after the approval of its conceptual design through to operations.</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 manages the Procurement Arrangement for the vacuum tokamak dust filtering system and then follows this procurement through the preliminary and finals design phases to component delivery;</p> <p>-Manages the validation program for the dust filtering system, performed either within the US Domestic Agency or by ITER Organization Central-Team direct contracts, to ensure that the nuclear safety functions performed by the system will be validated and accepted by the nuclear regulator;</p> <p>-Maintains and coordinates the interface to the dust filtering system including remote handling to ensure integration through its life cycle;</p> <p>-Identifies and surveys critical activities in manufacturing;</p> <p>-Prepares schemes and procedures for installation;</p> <p>-Prepares the commissioning procedures, operational schemes, and maintenance to ensure the filtering system will perform its safety functions;</p> <p>-Performs and co-ordinates nuclear safety analysis;</p> <p>-Prepares and performs commissioning of ITER's vacuum system mechanical components;</p> <p>-Provides effective leadership for support teams of vacuum technicians and leak test personnel during vacuum related machine assembly as required;</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>
Measures of effectiveness	<p>-Reports to Vacuum Section Leader;</p> <p>-Acts as an interface between Vacuum and other technical Section 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> <p>-Progresses systems analysis according to DWS and SMP;</p> <p>-Achieves components and systems design, installation and testing within the defined cost and schedule;</p> <p>-Controls and monitors efficiently interfaces and integrates vacuum components and systems with other pertinent ITER systems;</p> <p>-Coordinates and directs efficient efforts of the IO and the DA's in respect to vacuum design analysis;</p> <p>-Communicates effectively with other Section in ITER on</p>

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My job alert

vacuum related issues.

Project Construction Phase
ID SAP 50000657

Level of study	Master or equivalent degree
Diploma	Mechanical, Nuclear Eng. or other relevant field
Level of experience	At least 10 years
Technical experience/knowledge	<ul style="list-style-type: none">-Excellent knowledge in vacuum, gas dynamics and dust transportation;-Knowledge in the design of nuclear shielding and confinement systems;-Knowledge of ventilation systems and HVAC would be an advantage;-Extensive experience in similar jobs (involving similar work responsibilities) and/or additional training certificates in relevant domains are properly evaluated as additional value. <ul style="list-style-type: none">-At least 10 years' experience in vacuum component and systems design, and in weld design and techniques;-Experience in gas dynamics and stress analysis;-Experience of working with pressure equipment directives and standards;-Experience in engineering in harsh and nuclear environments;-Experience in nuclear engineering. <ul style="list-style-type: none">-Experience in managing contracts for vacuum components and systems;-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	CATIA Computer Aided Design MS Office standard (Word, Excel, PowerPoint, Outlook)
General skills	<ul style="list-style-type: none">-Good command of MS Office,-High level experience of using CAD tools in 2D and 3D (AVEVA and CATIA)-Experience in using data bases would be an advantage.
Languages	English (Fluent)

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