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JOB DETAIL

Ref. IO1761 - 9/8/2016

EC Systems Integration Engineer - TED 089

Main job	Mechanics
Department	TED / Tokamak Engineering Department
Division	TED / Heating & Current Drive Division
Section	TED / HCD / Electron Cyclotron Section
Job Family	Engineer - 1
Application Deadline (MM/DD/YYYY)	10/23/2016
Grade	P2
Direct employment	Not required
Purpose	<p>-To support the design finalization of the EC (Electron Cyclotron) system in preparation to the installation of the EC sub-systems.</p> <p>-To contribute to the management of the EC system internal interfaces between the high voltage power supplies, microwave sources (or gyrotrons), transmission lines and launchers in addition to the plant interfaces (cooling, vacuum, electrical, structural, etc.).</p> <p>-To prepare the installation task descriptions, operation and maintenance plans, revision of the system level documentation, management of the requirement propagation and compliance matrix between the project level requirements to the EC sub-systems, management of the system metrology analysis and revision of the integrated EC model in the as-built buildings.</p>
Main duties / Responsibilities	<p>-Advances the EC system documentation from the preliminary to final design, which includes the design description, safety functions; functional capabilities, related diagrams, models and drawings;</p> <p>-Coordinates the development of the installation and commissioning plans of the EC system;</p> <p>-Prepares operation and maintenance plans in collaboration with the EC system Technical Responsible Officers (TROs);</p> <p>-Coordinates analysis of the as-built metrology data for buildings and develops the related models for the revised EC system layout including related tolerance analysis;</p> <p>-Verifies design compliance with ITER project requirements and with other ITER systems interfacing with the EC system and the propagation of the requirements to the EC subsystem, and the corresponding system level compliance matrix;</p> <p>-Supports the EC TROs in the management of the factory and on-site acceptance tests and subsequent installation of the respective sub-systems;</p> <p>-Assists in the monitoring of Quality Programs associated with the sub-system procurements;</p> <p>-Ensures tasks are completed on schedule and support milestones related to the EC system;</p> <p>-Performs other duties in support of the project schedule;</p> <p>-May be requested to be part of any of the project team and perform other duties;</p> <p>-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p> <p>-Reports to the Electron Cyclotron Section Leader;</p> <p>-Acts as an interface between the ITER Organization and the Domestic Agencies in developing/monitoring/evaluating contracts, task agreements and system development management;</p> <p>-In response to requests from the Director-General and/or Tokamak Engineering Department (TED) Head, or proactively, informs the DG/ TED Head 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>-Develops technical specifications, qualification plan and procedures to ensure the EC system are compliant with IO specifications and Safety regulations;</p>

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-Develops, manages and maintains documentation, quality compliance and system integration of the EC system;
-Provides high quality technical support for the EC subsystems.

Project Construction Phase

Level of study	At least Master's Degree or equivalent
Diploma	mechanical engineering or system engineering
Level of experience	At least 5 years
Technical experience/knowledge	<p>-At least a Master's degree (or equivalent) in mechanical engineering or system engineering or other relevant discipline;</p> <p>-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;</p> <p>-Further education and/or training in project management is an advantage.</p> <p>-At least 5 years' experience in systems or mechanical engineering and/or design on Heating & Current Drive system(s);</p> <p>-At least 5 years experience in technical integration of complex mechanical systems;</p> <p>-Experience in developing complex systems with nuclear safety functions is an advantage;</p> <p>-Experience in installation and operation of an EC system on an existing tokamak or Stellarator is an advantage;</p>
Social skills	Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit
Specific skills	Ansys CATIA MS Office standard (Word, Excel, PowerPoint, Outlook)
General skills	<p>-Experience with system engineering, engineering standards (for example: RCC-MR, SDC-IC, ASME, EN, ASTM), regulation compliances (such as European Directives) and quality management (for example: ISO 9000s, IAEA GS-R-3, ASME NQA-1);</p> <p>-Proficient at writing technical reports and design guidelines; .</p> <p>-Basic Project Management experience is required.</p>
Others	<p>-Experience using analytical programming, and Microsoft applications required;</p> <p>-Experience using CATIA, ANSYS and Microsoft Office applications.</p>
Languages	English (Fluent)

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