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JOB DETAIL

Ref. IO2086 - 2/27/2019

Project Engineer TED-167

Main job	Mechanics
Department	TED / Tokamak Engineering Department
Division	TED / Heating & Current Drive Division
Section	TED / HCD / Electron Cyclotron Section
Job Family	Engineer - 2
Application Deadline (MM/DD/YYYY)	04/14/2019
Grade	P3
Direct employment	Not required
Purpose	<p>To be the Technical Responsible Officer (TRO) for the power upgrade project of the Electron Cyclotron (EC) system.</p> <p>To develop the design of the required layout modifications, adaptation of components and associated auxiliary services, prepare technical specifications, follow-up contracts up to the commissioning and operation phases.</p> <p>To enforce and maintain Quality Assurance program and safety requirements, managing non-conformity and deviation request management.</p> <p>To develop required resource profiles, schedules, component specifications, and manage the procurement of associated components and sub-systems that comprises the EC upgrade.</p> <p>To develop the installation, commissioning and operations plans for the upgrade, based on the existing plans used for the baseline EC system.</p>
Main duties / Responsibilities	<p>Oversees the design development (conceptual to manufacturing drawings) whilst managing the budget and schedule, contract preparations in addition to supervising the manufacturing, installation, commissioning and operation phases;</p> <p>Coordinates the development of the activities between the ITER Organization and the various domestic agencies in charge of the procurement for the main EC components;</p> <p>Documents the functionality, design requirements, load specifications, design description, quality plans (including verification and validation) and other ad-hoc documentation required for the installation, commissioning and operation;</p> <p>Ensures design compliance with the interfacing ITER systems of the EC system and keeps the requirement compliance matrix up to date;</p> <p>Assists in monitoring the associated Quality Programs, manages non-conformance and deviation requests and proposes corrective actions;</p> <p>Provides engineering guidance and advice for the overall EC system development to solve technical issues;</p> <p>May be requested to be part of any of the project/construction teams and to perform other duties in support of the project;</p> <p>May be required to work outside ITER Organization reference working hours, including nights, weekends and public holidays;</p> <p>Reports to the Electron Cyclotron Section Leader.</p>
Measures of effectiveness	<p>In respect with the annual work plan and master schedule milestones, develops the EC power upgrade project towards design completion followed by system installation.</p> <p>Effectiveness is measured by the;</p> <p>Develops the required system layout, integration, documentation management, safety and quality compliance in a timely manner and within the defined costs;</p> <p>Generates and maintains coherent, comprehensive and technically correct documentation;</p> <p>Maintains effective communication and ensure adequate coordination of the project within the ITER Organization and the domestic agencies as required by this position.</p>
Level of study	Master or equivalent degree
Diploma	Mechanical Engineering, Microwave Field or other
Level of experience	At least 8 years
Technical experience/knowledge	<p>At least 8 years' experience in the design, construction and integration of components for large scientific projects, preferably in an international environment;</p> <p>Experience with design and manufacturing codes;</p> <p>Project management experience, preferably in a large engineering project is required;</p> <p>Experience in supervising/coordinating installation activities on-site would be an advantage;</p>

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Experience in dimensional tolerances and metrology would be an advantage;
Experience in high power heating system(s) on an existing fusion device would be highly advantageous;
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.

Specific skills Ansys
CATIA

General skills Collaborate: Ability to dialogue with a wide variety of contributors and stakeholders;
Communicate Effectively: Ability to adjust communication content and style to deliver messages to work effectively in a multi-cultural environment;
Drive results: Ability to persist in the face of challenges to meet deadlines with high standards;
Manage Complexity: Ability to gather multiple and diverse sources of information to define problems accurately before moving to proposals;
Instill trust: Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.

Others Microsoft Office applications
Experience using CATIA and/or ANSYS is an advantage.

Languages English (Fluent)

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