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JOB DETAIL

Ref. IO1778 - 10/10/2016

Mechanical Engineer/Analyst - TED-101

Main job	Mechanics
Department	TED / Tokamak Engineering Department
Division	TED / Magnet Division
Section	TED / MAG / Superconductor Systems & Auxiliaries Section
Job Family	Engineer - 1
Application Deadline (MM/DD/YYYY)	11/20/2016
Grade	P2
Direct employment	Not required
Purpose	Responsible for the detailed structural, thermal and electromagnetic analysis of the In-Vessel Coils (IVCs) and contributes to the design optimization based on the analysis results.
Main duties / Responsibilities	<p>-Performs design and analysis of In-Vessel Coil components and assesses performance against design codes/criteria and test results on components;</p> <p>-Performs fatigue analysis based on the SN approach and LEFM of coils, feeders, supports;</p> <p>-Monitors support contracts related to analysis of IVCs;</p> <p>-Performs analysis related to interfaces with other ITER components;</p> <p>-Performs analysis related to assembly tolerances of In-Vessel Coil components;</p> <p>-Maintains and updates input documentation required for analysis of IVCs;</p> <p>-Contributes to the design and to the development of the assembly plan for the IVC;</p> <p>-Designs and carries out mechanical testing of IVC components and mock-ups to demonstrate the mechanical performance over the operating life;</p> <p>-Documents the analyses with detailed reports;</p> <p>-Prepares analysis reports in support of Intermediate and Final Design Reviews; assist in resolution of review chits;</p> <p>-Implements quality assurance and quality control of above activities in collaboration with the Central Integration Office;</p> <p>-Performs other duties in support of the project schedule;</p> <p>-May be requested to belong to any project team dealing with above activities and perform other duties;</p> <p>-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety.</p> <p>-Reports to the Superconductor Systems & Auxiliaries Section Leader;</p> <p>-Works closely with the Technical Responsible Officer for the In-Vessel coil systems;</p> <p>-Interacts with other members of the Magnet Division and/or other Departments as required by the In-Vessel coil design, in particular with the integration and assembly teams;</p> <p>-In response to requests from the Director-General and/or Head of Tokamak Engineering Department (TED), or proactively, informs the DG/ Head of TED 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>-Timely delivery of analysis and corresponding reports;</p> <p>-Timely updates of input documentation for analysis;</p> <p>-Timely contributions to interface and design review documents;</p> <p>-Timely contributions to quality assurance and quality control of in-vessel coil activities.</p>
Level of study	Project Construction Phase
Diploma	Master or equivalent degree
	Mechanical Engineering or other discipline

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My job alert

Level of experience	At least 5 years
Technical experience/knowledge	<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>-At least 5 years' experience in performing structural, thermal and electromagnetic analysis of large welded or bolted components by using ANSYS analysis code and assessing performance against defined design criteria;</p> <p>-Practical experience in CAD and/or engineering/manufacturing drawing production and review;</p> <p>-Practical experience in production and/or assembly of electro magnets would be an advantage;</p> <p>-Experience with international codes and standards such as ISO, EN, RCC-MR, ASTM and ASME for construction of pressure equipment and/or nuclear equipment would be an advantage.</p> <p>-Experience in performing fatigue analysis applying the SN approach;</p> <p>-Experience in LEFM fatigue/fracture assessment would be 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 MS Office standard (Word, Excel, PowerPoint, Outlook)
General skills	-Ability to both work in a team and coordinate a group of professionals; -Ability to communicate clearly and write technical reports and specifications in English;
Languages	English (Fluent)

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