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Ref. IO2125 - 6/17/2019

Superconductor Engineer TED-220

Main job Mechanics

Department TED / Tokamak Engineering Department

Division TED / Magnet Division

Section TED / MAG / CS & Correction Coil Section

Job Family Coordinating Engineer

Application Deadline (MM/DD/YYYY) 07/21/2019

Grade P4

Direct employment Not required

Purpose SAP ID: 50000155

To be the Technical Responsible Officer (TRO) for the Central Solenoid System, covering the design and performance assessment, procurement under a Procurement Arrangement with US and supporting contracts, the on-site stacking of the individual coil modules, the installation into the cryostat and the commissioning of the system.

Background

The ITER magnet system consists of 4 main magnet systems, the Toroidal Field (TF) coils, the Poloidal Field (PF) coils, the Correction Coils (CC) and the Central Solenoid (CS) coils. The CS is a stack of 6 coil modules at the centre of the machine, using Nb3Sn superconductor operating at fields up to 13T and with a total weight of 1000t.

Please note that an organizational restructuring is planned in accordance with the needs of the organization and the evolution of the project phases. In this context, the unit of assignment of the present position may be updated in late 2019, early 2020.

Main duties / Responsibilities Responsible to manage the CS, CS Precompression Structure, and CS assembly tooling manufacture:
o Ensures that quality controls are properly implemented,
o Takes effective action where quality problems are found,
o Follows up work under the Procurement Arrangement with US Domestic Agency and their suppliers;
Responsible for design, at this stage processing deviation requests and Non Conformance Reports, providing performance predictions (structural, superconducting, electrical);
Oversees the on-site stacking of the CS coil modules and the precompression structure by contractors, the preparation of special assembly procedures and drawings, the preparation of the Engineering Work Package and handing over to the contractors;
Ensures that the CS and pre-compression structure design, manufacturing and assembly processes and materials are fully qualified;
Provides strategic options for ITER operations of the CS stack;
Defines and manages interfaces between the CS coil/structure system and power supplies, cryoplant, feeders, instrumentation, vacuum as well as the construction organization;
Prepares and monitors the budget for the CS work programme;
May be requested to be part of any of the project/construction teams and to perform other duties in support of the project;
May be required to work outside ITER Organization reference working hours, including nights, weekends and public holidays.

Measures of effectiveness Monitors efficiently procurement activities as per the ITER quality, cost and schedule requirements for delivery, as well as meeting intermediate ITER milestones;
Maintains the performance requirements of the CS coil system;
Manages efficiently interfaces, anticipates and solves issues when necessary;
Meets the construction schedule requirements for stacking and precompressing the CS on-site;
Meets the quality requirements for the CS system for the recording of manufacturing data, non-conformances and deviation requests.

Level of study Master or equivalent degree

Diploma	Engineering (Mechanical or Electrical) or other
Level of experience	At least 10 years
Technical experience/knowledge	<p>At least 10 years' experience specifically in superconducting coil & conductor design, analysis, testing, manufacturing, commissioning and operation;</p> <p>Master Degree or equivalent in the Engineering (Mechanical or Electrical) field or other relevant discipline;</p> <p>Recognized as an international superconductor expert in the field of superconducting magnets, with a good record of publications in respected journals;</p> <p>Able to anticipate complex and challenging technical issues or problems, drawing on experience and expertise;</p> <p>Able to formulate a technical strategy and present it to senior managers and stakeholders</p> <p>Able to identify, resolve and maintain technical and functional interfaces;</p> <p>Able to plan verification of compliance of the products with all applicable requirements and formulate and execute recovery plans.</p>
General skills	<p>Collaborate: Ability to lead a dialogue with a wide variety of contributors and stakeholders;</p> <p>Communicate Effectively: Ability to adjust communication content and style to deliver messages to work effectively in a multi-cultural environment;</p> <p>Drive results: Ability to persist in the face of challenges to meet deadlines with high standards;</p> <p>Manage Complexity: Ability to gather multiple and diverse sources of information to understand problems accurately before moving to proposals/solutions.;</p> <p>Instill trust: Ability to model high standards of team mindset, trust, excellence, loyalty and integrity.</p>
Others	The required education degree may be substituted by extensive professional experience involving similar work responsibilities and/or additional training certificates in relevant domains.
Languages	English (Fluent)

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