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JOB DETAIL

Ref. IO1807 - 2/9/2017

Magnet Technician - TED-095

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Main job	Mechanics
Department	TED / Tokamak Engineering Department
Division	TED / Magnet Division
Section	TED / MAG / CS & Correction Coil Section
Job Family	Coordinating Technician
Application Deadline (MM/DD/YYYY)	02/26/2017
Grade	G5
Direct employment	Not required
Purpose	<p>-To contribute to the follow up of the Central Solenoid (CS) coil, structures and assembly tooling procurement and assembly activities;</p> <p>-To qualify key processes of CS coil fabrication and on-site assembly;</p> <p>-To prepare / update CS coil in-factory and on-site assembly and quality control processes and documents.</p>
Main duties / Responsibilities	<p>-Follows up procurement for the CS coils, structures and assembly tooling, in the technical areas of High Voltage insulation, vacuum / cryogenic technology, superconductivity;</p> <p>-Maintains normal operation of CS-related facilities and machinery in the MIFI workshop, and controls the inventories of equipment, tooling, parts, components, and consumables;</p> <p>-Assists to prepare and qualify on-site CS assembly procedures including quick prototyping of tooling as requested by engineers, manufacture of full size mockups of joints, preparation and participation in the associated qualification tests;</p> <p>-Drafts on-site busbar extensions and feeder assembly procedures and manufacturing / inspection plans based on the techniques, setup, and procedures used in the qualification tests;</p> <p>-May be required to work outside normal working hours, including nights, weekends and public holidays;</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>-Reports to the CSCC Section Leader;</p> <p>-Works closely with the Technical Responsible Officer for the CS coil systems, Structures and Assembly Tooling;</p> <p>-Interacts with other members of the Magnet Division and/or other Departments as required by the CS 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 and accurate delivery of analysis and corresponding reports;</p> <p>-Timely issues requested processes & procedures;</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 central solenoid activities.</p>
	Project Construction Phase
Level of study	Two years post-secondary education
Diploma	Mechanical Engineering or other related discipline
Level of experience	At least 9 years' experience
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>-Ability to read and interpret mechanical drawings, schematics, and manufacturers' manuals (or similar documents), and to fabricate parts or sub-assemblies from sketches or verbal instructions;</p> <p>-Knowledge of soldering, welding, vacuum / torch brazing,</p>

and visual inspection procedures;
-Familiarity with at least two of the following areas:
superconducting components, coil design and manufacture,
vacuum leak testing and material properties at low
temperatures.

-At least 9 years' experience (or 7 with two Bachelor
degree) in similar position within a multidisciplinary project
or institute;
-Practical experience in cryogenics and vacuum
technologies;

Social skills Ability to work effectively in a multi-cultural environment
Ability to work in a team and to promote team spirit

Specific skills MS Office standard (Word, Excel, PowerPoint, Outlook)

General skills -Experience with safe usage of electrical test equipment
(Multimeters, breakdown testers and power supply units);
-Experience with welding;
-Experience with mechanical assembly;
-Experience with dimensional measurements is considered
as an advantage;
-Experience with strain gauges installation and
measurements;
-Experience in the use of rigging equipment (e.g., cranes,
fork-lifts and scissor lifts).

-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;
-Ability to work in a team and to promote team work.

Languages English (Fluent)

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