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JOB DETAIL

Ref. IO1790 - 11/17/2016

Magnet Assembly Technician - TED-092

Main job	Composite matters
Department	TED / Tokamak Engineering Department
Division	TED / Magnet Division
Section	TED / MAG / Superconductor Systems & Auxiliaries Section
Job Family	Coordinating Technician
Application Deadline (MM/DD/YYYY)	12/29/2016
Grade	G5
Direct employment	Not required
Purpose	-To contribute to the follow up of the Toroidal Field (TF) coil, structures and supports procurement and assembly activities. -To qualify key processes of TF coil fabrication and on-site assembly; -To prepare and update TF coil in-factory and on-site assembly and quality control processes and documents.
Main duties / Responsibilities	-Follows up procurement for the TF coils, structures and supports, in the technical areas of High Voltage insulation, vacuum / cryogenic technology, superconductivity; -Maintains normal operation of TF-related facilities and machinery in the Magnet Infrastructure Facilities for ITER (MIFI) workshop, and controls the inventories of equipment, tooling, parts, components, and consumables; -Assists to prepare and qualify on-site TF assembly procedures including quick prototyping of tooling as requested by engineers, manufacture of full size mockups of keys and flanges, preparation and participation in the associated qualification tests; -Drafts on-site feeder assembly procedures and manufacturing / inspection plans based on the techniques, setup, and procedures used in the qualification tests; -Performs other duties in support of the project schedule; -May be requested to be part of any of the project/construction teams and to perform other duties; -Maintains a strong commitment to the implementation and perpetuation of the ITER Safety.  -Reports to the TF Section Leader; -Works closely with the Technical Responsible Officers for the TF coil systems, Structures and Supports; -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; -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.
Measures of effectiveness	-Timely delivery of analysis and corresponding reports; -Timely drafts procedures; -Timely updates of input documentation for analysis; -Timely contributions to quality assurance and quality control of in-vessel coil activities.  Project Construction Phase
Level of study	At least Bachelor's degree or equivalent
Diploma	Mechanical Engineering or other related discipline
Level of experience	At least 7 years
Technical experience/knowledge	-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.  -At least 7 years of experience in cryogenics and vacuum

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	technologies for multidisciplinary project or institute; -Experience with safe usage of electrical test equipment (Multimeters, breakdown testers and power supply units); -Experience in welding and knowledge of different welding and weld inspection techniques; -Experience in the use of rigging equipment (e.g., cranes, fork-lifts and scissor lifts) is considered as an advantage.
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 read and interpret mechanical drawings, schematics, and manufacturers' manuals (or similar documents), know how to develop fabrication plans for parts or sub-assemblies from sketches or verbal instructions; -Knowledge of welding, vacuum / torch brazing, 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.
Others	-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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