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Ref. IO1112 - 11/22/2010

Magnet Auxiliaries Officer -TKM-015

Main job	Mechanics
Department	DIP/Directorate for Tokamak
Division	TKM / Magnet Division
Section	TKM / MAG / Superconductor Systems and Auxiliaries Section
Job Family	Project engineering
Application Deadline	1/2/2011
Grade	P2
Direct employment	Not required
Purpose	To be responsible for the mechanical analysis and design of the auxiliary systems of the ITER superconducting magnets, including cryogenics, vacuum and insulation.
Main duties / Responsibilities	• Produces specifications and designs of the superconducting magnet feeder systems, including piping, manifolding and valves, mechanical supports, vacuum and electrical insulation; • Produces and maintains drawings and design documentation; • Defines and maintains documents for the interfaces with magnets and external systems, including cryoplant, cryostat and vacuum; • Takes responsibility for feeder component integration and definition of assembly and installation procedures; • Completes procurement specifications. Implements quality control programme; • Provides input to schedule, initiates critical advance development items and qualification testing; • Contributes to the monitoring of the Procurement Arrangement with the Chinese Domestic Agency and of the quality control programme; • Develops effective methods for critical acceptance tests, including leak detection, vacuum integrity and high voltage insulation • Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics
Measures of effectiveness	Superconducting magnet auxiliary design accepted by review groups. Ability to transfer the design to the Chinese Domestic Agency and its suppliers. Timely delivery of magnet auxiliaries' components. Successful commissioning of auxiliaries for the magnet systems.
Level of study	Bachelor or equivalent degree
Level of experience	5 to 9 years
Technical experience	Minimum of five years of experience in the design and operation of large-scale equipment involving cryogenics, vacuum, high-voltage insulation, and superconductivity Familiarity with relevant codes and standards Familiarity with cryogenic and vacuum instrumentation Experience in manufacture and assembly would be an advantage.
Project experience	8 to 10 years
Social skills	Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit Ability to organize and monitor activities Ability to communicate effectively Proactive
Specific skills	Computer literate and proficient in the use of the Microsoft Office software suite (Word, Excel, Powerpoint, etc);

	Working knowledge of CAD and database management software would be an advantage.
Languages	English (Fluent)

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