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Ref. IO1065 - 12/18/2009

Senior Magnet Coordinator - TKM-014

Main job	Mechanics
Type of contract	Fixed term contract
Grade	P5
Purpose	To assist the Magnet Division Head to manage the overall mechanical-electrical integration design aspects of the ITER coils, providing expert input for the design integration of: feeders, Coil Terminal Boxes (CTB), Toroidal Field (TF) Coils Central Solenoid (CS), Poloidal Field (PF) and Correction Coils, and Instrumentation; To assist in developing and maintaining interfaces with external systems such as Power Supplies and Cryogenics; To ensure quality standards to are duly applied to magnet documentation and procedures; To assist in monitoring magnet Procurement Activities.
Main duties / Responsabilities	• Provides mechanical-electrical integration expertise to the Magnet Division; • Contributes to the definition of mechanical and electrical design criteria for the magnets; • Contributes to defining qualification and quality control tests for the coils and components; • Provides assistance to the magnet sections, in the area of quality control, developing and following procedures related to technical documentation, ensures consistency within the Magnet Division Sections for interface control and documentation; • Contributes to the preparation of design and procurement specifications relating to mechanical and electrical design and testing/inspection; • Participates in the monitoring of magnet procurement, especially in organizing and maintaining procurement documents; • Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.
Direct employment	Not required
Measures of effectiveness	• Overall organization of magnet documentation; • Completeness of magnet interface definitions; • Overall organization (and maintenance) of magnet procurement documentation.
Level of study	PhD or equivalent degree
Diploma	Mechanical or electrical engineering
Level of experience	20 to 30 years
Technical experience	– At least 21 years' post graduate experience in high voltage coils and in the problems associated with cryogenics and vacuum systems; – At least 21 years' post graduate experience in coil manufacturing and testing; – Familiarity with magnetic field coil design and superconductivity; – Some knowledge of superconducting coil instrumentation; – General knowledge of fusion magnet systems and their structural and voltage design issues; – Experienced in organizing and chairing multicultural meetings.
Social skills	Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team work
Specific skills	• Project experience: – Experience in the technical aspects of project management and organization, including the administration of technical documentation in multi-disciplinary projects. • Language requirements:

– Ability to communicate clearly in English and write technical reports and specifications in that language.
• Computer and IT skills:
– General familiarity with computer based office programs, numerical analysis packages for structural and thermal assessment, and computer aided design.

Languages English (Fluent)

General skills MS Office standard applications (Word, Excel, Powerpoint, Outlook)

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