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**JOB DETAIL** 

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Ref. IO1740 - 7/13/2016

## Superconducting Magnets Officer - TED-091

Main job	Mechanics
Department	TED / Tokamak Engineering Department
Division	TED / Magnet Division
Section	TED / MAG / Superconductor Systems & Auxiliaries Section
Job Family	Engineer - 1
Application Deadline (MM/DD/YYYY)	07/31/2016
Grade	P2
Direct employment	Not required
Purpose	Under the supervision of the magnet instrumentation and control responsible officer, to: -Lead the magnet Low Voltage instrumentation for assembly, test and commissioning activities; -Update and maintain all relevant documentation; -Plan all related assembly and commissioning activities; -Coordinate and guide technicians and monitor deliverables from the service contracts involved in these activities.
Main duties / Responsibilities	<ul> <li>-Takes responsibility of the magnet LV instrumentation procurement contracts;</li> <li>-Leads the magnet LV instrumentation chain reception tests and the integration to the magnet control system including the application software development;</li> <li>-Specifies and oversees the creation and updates of electrical diagrams and cable routing drawings for magnet LV instrumentation;</li> <li>-Leads the definition of the magnet LV instrumentation installation and test procedures;</li> <li>-Leads the definition of the magnet LV instrumentation installation and test procedures;</li> <li>-Leads the quality control tests on magnet LV instrumentation including the CODAC interfaces;</li> <li>-Checks and ensures maintenance of relevant ITER databases;</li> <li>-Monitors related service contracts including visits and deliverables;</li> <li>-Communicates with other organizations within the ITER collaboration and the fusion community;</li> <li>-Supports effective risk identification and management;</li> <li>-Maintains related documentation at all times on the ITER Document System and ensures it is updated and in the correct formats;</li> <li>-Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan;</li> <li>-Maintains a strong commitment to the implementation and perform other duties upon management request;</li> <li>-Mintains a strong commitment to the implementation and perform other duties upon management request;</li> <li>-Maintains a strong commitment to the implementation and perform other duties upon the project team and perform other duties upon the program, values and ethics.</li> <li>-Under the supervision of the Magnet instrumentation Responsible Officer, reports to the Superconductor Systems &amp; Auxiliaries Section Leader.</li> <li>-Acts as an interface between other Departments as required by the magnet design, in particular with the Electrical Engineering Division and the Control System Division for the magnet LV instrumentation</li></ul>
Measures of effectiveness	-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.
	-Work packages completed to agreed deadlines

-Developed and approved interface documentation, schematics plans and databases;

	-Developed and approved technical documentation for installation and commissioning phase; -Developed and approved installation plans; -Successful collaboration with technical partners in Magnet, Domestic Agencies and other Departments of the ITER Organization (IO). Project Construction Phase
Level of study	Master or equivalent degree
Diploma	Mechanical, Cryogenics, Instrumentation/Electronic
Level of experience	At least 5 years
Technical experience/knowledge	<ul> <li>-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.</li> <li>-At least 5 years' experience in mechanical instrumentation and/or in cryogenic instrumentation. Experience in the two domains will be an advantage.</li> <li>-Documented experience in the domain of mechanical and/or thermodynamic measurement techniques applied in superconducting magnets environments;</li> <li>-At least 3 years' experience in a fusion-related field;</li> <li>-Knowledge of Electromagnetic Compatibility issues for instrumentation and measurements conducted in harsh environments will be an advantage;</li> <li>-Project Management experience is required;</li> <li>-Experience with the technical follow-up of CAD activity;</li> <li>-Familiarity with electrical diagrams and 3D models;</li> <li>-Good understanding of an engineering document plan;</li> <li>-Proven presentation writing skills.</li> </ul>
Social skills	Ability to work in a team and to promote team spirit Ability to communicate effectively
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	-Good command of the Microsoft Office package.
	-Knowledge of engineering databases will be an advantage.
Languages	English (Fluent)

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