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JOB DETAIL

Ref. IO1829 - 3/3/2017

Magnet Instrumentation Technician - TED-106

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Main job	Electricity
Department	TED / Tokamak Engineering Department
Division	TED / Magnet Division
Section	TED / MAG / Superconductor Systems & Auxiliaries Section
Job Family	Technician - 3
Application Deadline (MM/DD/YYYY)	04/16/2017
Grade	G4
Direct employment	Not required
Purpose	<p>To contribute to the instrumentation installation, test and commissioning for the ITER Organization (IO) coils and auxiliary systems.</p> <p>To support the integration of the instrumentation into the coils and feeders.</p> <p>To contribute to definition of instrumentation assembly and commissioning procedures.</p> <p>To monitor the instrumentation assembly and the coil commissioning activities.</p>
Main duties / Responsibilities	<ul style="list-style-type: none"> -Contributes to the definition of the instrumentation system installation and test procedures; -Contribute to the instrumentation measurement chain qualification; -Monitors quality control tests on the instrumentation at manufacture and at installation in compliance with the Central Integration Office guidance; -Supports the instrumentation specialized activities; -Follows up and reviews the definition of the Magnet instrumentation cable lists and cabling drawings; -Contributes to the specifications, manufacture follow up and acceptance tests of the Magnet control cubicles; -Contributes to the Quench Detection System qualification; -Contributes to the integration of the instrumentation measurement chains for low and high voltage signals to the Magnet control system; -Contributes to the definition of the instrumentation interfaces to CODAC, Central Interlock and Safety Systems; -Assists in providing the control logic to allow the control software to be developed; -Contributes to the Magnet system commissioning and future operation; -May be required to work outside normal working hours, including nights, weekends and public holidays; -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 Program, values and ethics. <p>-Under the supervision of the Magnet instrumentation Responsible Officer, reports to Superconductor Systems & Auxiliaries Section Leader;</p> <p>-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;</p> <p>-Acts as an interface between the construction teams and the Magnet Division for instrumentation scope;</p>
Measures of effectiveness	<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> <p>-Contributes efficiently to the qualification of the instrumentation solutions and the installation procedures within the defined schedule;</p> <p>-Contributes efficiently to the instrumentation system installation and commissioning within the defined schedule;</p> <p>-Generates and maintains accurate, consistent, comprehensive and high quality documentation;</p> <p>-Contributes to the life-cycle of the instrumentation series procurement, installation and commissioning.</p>
	Project Construction Phase SAP Id: 50002227
Level of study	Bachelor or equivalent degree

Diploma	Electrical Engineering or other related discipline
Level of experience	At least 5 years
Technical experience/knowledge	<ul style="list-style-type: none">-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.-Knowledge of HV and LV measurement techniques.-Knowledge of cryogenic instrumentation;-At least 5 years' postgraduate experience in magnet instrumentation design;-QA/QC experience in similar activities ;Familiarity with Magnet and Cryogenic controls including quench detection is an advantage;-Basic Project Management experience is required.
Social skills	Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit
Specific skills	Computer Aided Design MS Office standard (Word, Excel, PowerPoint, Outlook)
General skills	<ul style="list-style-type: none">-Ability to both work in an international team and coordinate a group of technicians;-Ability to communicate clearly and write technical reports and procedures in English;
Others	<ul style="list-style-type: none">-Familiarity with CAD tools for electrical drawings;-Good command of the Microsoft Office package.
Languages	English (Fluent)

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