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JOB DETAIL

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Ref. IO1545 - 6/16/2015

Magnet Instrumentation Engineer TED-005

	Main job	Electrotechnics
	Department	TED / Tokamak Engineering Department
	Division	TED / Magnet Division
	Section	TED / MAG / Superconductor Systems & Auxiliaries Section
	Job Family	Engineer - EC
	Application Deadline (MM/DD/YYYY)	07/08/2015
	Grade	P1
	Direct employment	Not required
	Purpose	To perform the High Voltage (HV) qualification and Quality Control tests of the magnet and instrumentation components. To interface with the HV component procurement Responsible Officers (ROs) for component specifications and to interface the magnet system designers in that area. To contribute to the magnet system quench detection life- cycle from the functional specifications to the system commissioning. To contribute to the magnet Instrumentation & Control quality.
	Main duties / Responsibilities	Specifies and follows-up the manufacture of the test facility required for qualifying the HV measurement chains and
		 workshop; Defines & executes the qualification tests for HV insulation and HV instrumentation; Drafts the technical specifications of the quench detection system; Proposes the definition of the installation commissioning scenarios of the quench detection system; Contributes to the quench detection system commissioning; Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan & upon management request; May be requested to belong to any project team dealing with above activities and perform other duties upon management request; Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.
	Measures of effectiveness	Under the supervision of the Magnet instrumentation Responsible Officer, reports to Superconductor Systems & Auxiliaries Section Leader; Acts as an interface between other Departments as required by the magnet design, in particular with the Electrical Engineering Division and the CODAC Section; 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.
		Completes the set-up the test facility required for qualifying and for the quality control of the HV insulated components. Contributes efficiently to the quench detection system specifications; Contributes to the manufacture and the qualification of the quench detection prototype;

Contributes to the life-cycle of the quench detection system series production, installation and commissioning.

	Project Construction Phase
Level of study	Master or equivalent degree
Diploma	Electrical Engineering or other related discipline
Level of experience	2 to 3 years
Technical experience/knowledge	Knowledge of HV measurement techniques; Knowledge of ITER magnet HV instrumentation.
	At least 2/3 years' postgraduate experience in magnet instrumentation design; 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	MS Office standard (Word, Excel, PowerPoint, Outlook)
General skills	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.
Others	Familiarity with CAD tools for electrical drawings; Good command of the Microsoft Office package; Good command of the simulation tools commonly used for electromagnetic analysis.
Languages	English (Fluent)

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