



JOB DETAIL

Ref. IO1690 - 4/14/2016

Plasma Wall Diagnostician TED-063

Main job	Science or Technology
Department	TED / Tokamak Engineering Department
Division	TED / Port Plugs & Diagnostics Integration Division
Section	TED / PPD / In-Vessel Diagnostics Section
Job Family	Scientist-2
Application Deadline (MM/DD/YYYY)	05/15/2016
Grade	P3
Direct employment	Not required
Purpose	<p>To manage the Tritium Monitor, Residual Gas Analysis, Pressure Gauge, Bolometer, and Thermocouple projects. To organize and verify all supporting work, including R&D and manufacturing for the Tritium monitor and Thermocouples. To maintain interfaces for all five systems. To plan all related assembly and commissioning activities.</p> <ul style="list-style-type: none">• Manages the Tritium Monitor and Thermocouple projects;– Leads the supply of the system;– Specifies all system requirements;– Determines, organizes and executes all supporting R&D;– Manages the hardware and software direct procurement activity;– Manages the commissioning preparation activities;– Plans and specifies assembly and integration activities on site;• Develops the detailed design of Tritium Monitor and Thermocouples;– Develops calibration strategies in the context of systems;– Develops the design of interfaces;– Drives and contributes to relevant integration activities;– Specifies and oversees the creation and updates of 2D-diagrams;– Updates and takes through review all relevant supporting engineering documents;– Leads the design review processes;– Prepares technical specifications for procurement with industry;– Checks and ensures maintenance of relevant ITER databases.
Main duties / Responsibilities	<ul style="list-style-type: none">• Oversees construction of the Residual Gas Analysis, Pressure Gauge and supports Bolometer systems;– Provides oversight to DA activities;– Leads interfaces and other IO activities;– Manages the commissioning preparation activities;– Plans and specifies assembly and integration activities on site;– Ensures Domestic Agencies (DA) and ITER Organization (IO) schedules are compatible at all times;• Monitors service contracts including visits and deliverables;• Communicates with other organizations within the ITER collaboration and the fusion community;• Reports variances on all technical, cost and schedule aspects immediately to the Section Leader;• Supports effective risk identification and management;• Manages the change control process for the work and communicates changes to the line management;• Maintains related documentation at all times on the ITER Document System and ensure it is updated and in the correct formats;• Ensures the Division is well represented from an engineering perspective;• Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan;• May be requested to be part of any of the project team

My space

RSS

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	<div>and performs other duties upon management request;</div> <div><ul style="list-style-type: none">• Maintains a strong commitment to the implementation and perpetuation of the ITER safety program, values and ethics;</div> <div><ul style="list-style-type: none">• Reports directly to the In-Vessel Section Leader;• Interfaces with ITER Technical Departments, as required;• In response to requests from the Director-General and/or Head of Tokamak Engineering Department (TED), or proactively, informs the DG/ TED Head 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.</div>
Measures of effectiveness	<div><ul style="list-style-type: none">• Work packages completed to agreed deadlines;• Developed and approved interface documentation, schematics plans and databases;• Developed and approved technical documentation for procurement;• Developed and approved installation plans;• Successful collaboration with technical partners in Domestic Agencies and other Directorates at ITER Organization (IO);• Efficient work at all times with other Diagnostics team members.</div>
	Project Construction Phase
Level of study	PhD or equivalent degree
Diploma	Physics or Engineering
Level of experience	At least 6 years
Technical experience/knowledge	<div><ul style="list-style-type: none">– At least 6 years' experience in a fusion-related field;– Proven experience in the design of plasma-wall diagnostic systems;– Proven experience in the design or operation of laser-based diagnostics;– Proven participation in fusion experimental operations;– Documented expertise in plasma boundary and plasma wall interaction physics;– Experience in coordinating teams' activities;– Ability to project costs and resources for technical projects;– Experience with design defense in technical design reviews;– Experience with the technical follow-up of CAD activity;– Familiarity with electrical diagrams;</div> <div><ul style="list-style-type: none">– Basic knowledge of nuclear effects on materials</div>
Social skills	<div>Ability to work effectively in a multi-cultural environment</div> <div>Ability to work in a team and to promote team spirit</div>
Specific skills	<div>CATIA</div> <div>MS Office standard (Word, Excel, PowerPoint, Outlook)</div>
General skills	<div><ul style="list-style-type: none">– Proven presentation writing skills;</div>
Others	<div><ul style="list-style-type: none">– Familiarity with CATIA;– Experience with requirements management software (eg DOORS);– MS Office standard (Word, Excel, PowerPoint, Outlook).</div>
Languages	English (Fluent)
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