

IO1943 Diagnostics I&C Development Officer - TED-164

General information

Job category	Standard
Status	Published
Department	TED / Tokamak Engineering Department
Division	TED / Port Plugs & Diagnostics Integration Division

Job description

Main job	Engineering - Diagnostics
Title of the position	Diagnostics I&C Development Officer - TED-164
Job family	Engineer - 2
Grade	P3
Direct employment	Not required
Purpose	<p>To develop Instrumentation & Control (I&C) and support officers responsible for diagnostics supplied by the ITER Organization (IO) and Domestic Agencies (DAs) in all matters related to the plant I&C for these diagnostics. This covers all lifecycles from requirements capture, detailed design, manufacturing, and acceptance testing.</p> <p>To ensure that the quality of the plant I&C is adequate for the operation of the tokamak in collaboration with plant I&C integrators.</p>
Main duties / Responsibilities	<ul style="list-style-type: none">-Develops the I&C for the IO based Diagnostics;-Supports the I&C development in the Domestic Agencies;-Reviews Documentation provided by the DAs and provides feedback and support the designs;-Supports the commissioning preparation activities;-Supports and contributes to relevant integration activities;-Specifies and oversees the creation and updates of relevant diagrams;-Updates and takes through review all relevant supporting engineering documents;-Supports or leads the Design Review processes, as appropriate;-Prepares technical specifications in support of procurement actions;-Ensures required maturity for plant I&C design in terms of requirements, procedures, Human Machine Interface, Functions, Variables, Architecture, Signals, Cubicle Configuration and Automation;-Supports procurement activities of relevant components;-Collaborates efficiently with Constriction Organization on assembly of the systems;-Checks and maintains relevant ITER databases;-Maintains communication with other organizations within the ITER collaboration and the fusion community;-Supports assembly and construction activities to ensure a smooth implementation of the I&C;-May be required to work outside normal working hours, including nights, weekends and public holidays;-Implements the technical control of the Protection Important Activities, as well as their propagation to the entire supply chain;-May be requested to be part of any of the project/construction teams and to perform other duties in support of the project schedule;-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics. <p>-Reports to Port Plugs and Diagnostics Division Head;</p> <p>-Interacts with DAs and other IO technical and functional departments;</p> <p>-In response to requests from the Director-General (DG) and/or Tokamak Engineering Department (TED) Head 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.</p>
Measures of effectiveness	<ul style="list-style-type: none">-Work packages completed to agreed deadlines;-Developed and approved Design documentation, plans and databases;-Developed and approved technical documentation for procurement;

	-Developed and approved installation and commissioning plans; -Successful collaboration with technical partners in Domestic Agencies and other IO Departments/Offices; -Efficient work at all times with other Diagnostics team members. Project Construction Phase
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Applicant criteria

Technical experience/knowledge	Level of study	Master or equivalent degree
	Diploma	Engineering or applied physics field or other
	Level of experience	At least 8 years
		-At least 8 years' experience in the field of Diagnostic Engineering (including 2 in Project Engineering); -Operational experience in a nuclear-relevant field; -Experience with diagnostics and instrumentation of large scale facilities; -Organization and design defense lead in relevant design reviews; -Familiarity with recognized I&C design codes and standards; -Experience in writing reports and reviewing technical specifications; -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.
	Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
	Languages	English (Fluent)
	Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
	Others	-Coding experience and I&C relevant software.