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JOB DETAIL

Ref. IO2087 - 2/27/2019

Diagnostics Integration Officer TED-180

Main job	Diagnostics
Department	TED / Tokamak Engineering Department
Division	TED / Port Plugs & Diagnostics Integration Division
Section	TED / PPD / Common Port Plug Engineering Section
Job Family	Engineer - 2
Application Deadline (MM/DD/YYYY)	04/14/2019
Grade	P3
Direct employment	Not required
Purpose	To develop and coordinate the In-Vessel Viewing System (IVVS) design, liaise with Domestic Agencies (DAs) for any relevant follow-up and subsequently coordinate the integration of the system in ITER. To follow-up and support the integration of diagnostics within the diagnostic ports within the ITER Organization (IO). . To provide engineering solutions fulfilling the necessary integration requirements.
Main duties / Responsibilities	Develops the engineering design of the IVVS with experts' support at IO and the DAs; Leads the integration of the IVVS in the tokamak complex; Prepares and/or reviews technical specifications and documents as required, in preparation for manufacturing of IVVS components and associated tooling; Maintains the interfaces of IVVS components; Monitors the procurement of IVVS components; Prepares for the assembly and construction on site of the IVVS; Leads certain analyses of mechanical and thermal stresses, stresses due to electro-magnetic forces, dynamic analysis, neutronics assessment for IVVS components; Reviews thermal and structural analyses as needed against applicable codes and standards; Coordinates the development of operational and safety procedures for IVVS; Updates and reviews all relevant supporting engineering documents; Supports or leads the design review processes, as appropriate; Checks and maintains relevant ITER databases; Reports variances on all technical, cost and schedule aspects as necessary and proposes solutions; Identifies risks and supports their management when necessary; Manages the change control process for his/her scope of work and communicates changes to the line management; Maintains related documentation at all times on the ITER Document System; Ensures the Division is well represented from an engineering perspective at relevant technical meeting at IO; May be requested to be part of any of the project/construction teams and to perform other duties in support of the project; May be required to work outside ITER Organization reference working hours, including nights, weekends and public holidays; Reports directly to the Common Port Plug Engineering Section Leader; Interfaces with other ITER Technical Departments, Domestic Agencies, and ensures integration with other technical interfaces.
Measures of effectiveness	Maintains efficiently a strong collaboration and communication PBSs within the ITER organizations, DAs and the fusion community; Maintains related documentation ensuring that the system is updated and in the correct format; Completes work packages within agreed deadlines; Develops and approves interface documentation, schematics plans and databases; Creates and approves technical documentation for procurement; Develops and approves installation and operation plans; Maintains good relationships with all colleagues.
Level of study	Master or equivalent degree
Diploma	Mechanical Eng, Remote Handling or other
	At least 8 years

Level of experience	
Technical experience/knowledge	Master degree in mechanical engineering, remote handling engineering or plasma diagnostic engineering; At least 8 years' experience in mechanical engineering or remote handling engineering; Experience in the manufacturing of large and complex mechanical assemblies with moving parts; Experience in designing laser-aided systems for remote operations; Experience in a nuclear-relevant field; Quality control experience of mechanical productions; Familiarity with CAD oversight; Familiarity with Process & Instrumentation Diagrams; Proven project planning and costing ability for the assembly of mechanical systems; Organization and design defense lead in technical design reviews; Ability to publish & present documents in English and generate specifications for procurement and manufacturing follow-up.
General skills	Collaborate: Ability to dialogue with a wide variety of contributors and stakeholders; Communicate Effectively: Ability to adjust communication content and style to deliver messages to work effectively in a multi-cultural environment; Drive results: Ability to persist in the face of challenges to meet deadlines with high standards; Manage Complexity: Ability to gather multiple and diverse sources of information to define problems accurately before moving to proposals; Instill trust: Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.
Others	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; MS Office standard (Word, Excel, PowerPoint, Outlook).
Languages	English (Fluent)