

# IO2087 Diagnostics Integration Officer TED-180

## General information

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

## Job description

Main job	Engineering - Diagnostics
Title of the position	Diagnostics Integration Officer TED-180
Job family	Engineer - 2
Grade	P3
Direct employment	Not required
Purpose	<p>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.</p> <p>To follow-up and support the integration of diagnostics within the diagnostic ports within the ITER Organization (IO). .</p> <p>To provide engineering solutions fulfilling the necessary integration requirements.</p>
Main duties / Responsibilities	<p>Develops the engineering design of the IVVS with experts' support at IO and the DAs;</p> <p>Leads the integration of the IVVS in the tokamak complex;</p> <p>Prepares and/or reviews technical specifications and documents as required, in preparation for manufacturing of IVVS components and associated tooling;</p> <p>Maintains the interfaces of IVVS components;</p> <p>Monitors the procurement of IVVS components;</p> <p>Prepares for the assembly and construction on site of the IVVS;</p> <p>Leads certain analyses of mechanical and thermal stresses, stresses due to electro-magnetic forces, dynamic analysis, neutronics assessment for IVVS components;</p> <p>Reviews thermal and structural analyses as needed against applicable codes and standards;</p> <p>Coordinates the development of operational and safety procedures for IVVS;</p> <p>Updates and reviews all relevant supporting engineering documents;</p> <p>Supports or leads the design review processes, as appropriate;</p> <p>Checks and maintains relevant ITER databases;</p> <p>Reports variances on all technical, cost and schedule aspects as necessary and proposes solutions;</p> <p>Identifies risks and supports their management when necessary;</p> <p>Manages the change control process for his/her scope of work and communicates changes to the line management;</p> <p>Maintains related documentation at all times on the ITER Document System;</p> <p>Ensures the Division is well represented from an engineering perspective at relevant technical meeting at IO;</p> <p>May be requested to be part of any of the project/construction teams and to perform other duties in support of the project;</p> <p>May be required to work outside ITER Organization reference working hours, including nights, weekends and public holidays;</p> <p>Reports directly to the Common Port Plug Engineering Section Leader;</p> <p>Interfaces with other ITER Technical Departments, Domestic Agencies, and ensures integration with other technical interfaces.</p>
Measures of effectiveness	<p>Maintains efficiently a strong collaboration and communication PBSs within the ITER organizations, DAs and the fusion community;</p> <p>Maintains related documentation ensuring that the system is updated and in the correct format;</p> <p>Completes work packages within agreed deadlines;</p> <p>Develops and approves interface documentation, schematics plans and databases;</p> <p>Creates and approves technical documentation for procurement;</p> <p>Develops and approves installation and operation plans;</p>

## Applicant criteria

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