

# 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 &amp; Control (I&amp;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&amp;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&amp;C is adequate for the operation of the tokamak in collaboration with plant I&amp;C integrators.</p>
Main duties / Responsibilities	<ul style="list-style-type: none"><li>-Develops the I&amp;C for the IO based Diagnostics;</li><li>-Supports the I&amp;C development in the Domestic Agencies;</li><li>-Reviews Documentation provided by the DAs and provides feedback and support the designs;</li><li>-Supports the commissioning preparation activities;</li><li>-Supports and contributes to relevant integration activities;</li><li>-Specifies and oversees the creation and updates of relevant diagrams;</li><li>-Updates and takes through review all relevant supporting engineering documents;</li><li>-Supports or leads the Design Review processes, as appropriate;</li><li>-Prepares technical specifications in support of procurement actions;</li><li>-Ensures required maturity for plant I&amp;C design in terms of requirements, procedures, Human Machine Interface, Functions, Variables, Architecture, Signals, Cubicle Configuration and Automation;</li><li>-Supports procurement activities of relevant components;</li><li>-Collaborates efficiently with Constriction Organization on assembly of the systems;</li><li>-Checks and maintains relevant ITER databases;</li><li>-Maintains communication with other organizations within the ITER collaboration and the fusion community;</li><li>-Supports assembly and construction activities to ensure a smooth implementation of the I&amp;C;</li><li>-May be required to work outside normal working hours, including nights, weekends and public holidays;</li><li>-Implements the technical control of the Protection Important Activities, as well as their propagation to the entire supply chain;</li><li>-May be requested to be part of any of the project/construction teams and to perform other duties in support of the project schedule;</li><li>-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</li><li>-Reports to Port Plugs and Diagnostics Division Head;</li><li>-Interacts with DAs and other IO technical and functional departments;</li><li>-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.</li></ul>
Measures of effectiveness	<ul style="list-style-type: none"><li>-Work packages completed to agreed deadlines;</li><li>-Developed and approved Design documentation, plans and databases;</li><li>-Developed and approved technical documentation for procurement;</li></ul>

- 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

## Applicant criteria

Level of study	Master or equivalent degree
Diploma	Engineering or applied physics field or other
Level of experience	At least 8 years
Technical experience/knowledge	<ul style="list-style-type: none"> <li>-At least 8 years' experience in the field of Diagnostic Engineering (including 2 in Project Engineering);</li> <li>-Operational experience in a nuclear-relevant field;</li> <li>-Experience with diagnostics and instrumentation of large scale facilities;</li> <li>-Organization and design defense lead in relevant design reviews;</li> <li>-Familiarity with recognized I&amp;C design codes and standards;</li> <li>-Experience in writing reports and reviewing technical specifications;</li> <li>-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.</li> </ul>
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.