

# IO1569 Construction & Integration Engineer CIO-009

## General information

Job category	Standard
Status	Published
Department	CIO/ Central Integration Office
Division	CIO / Design Integration Section/Division

## Job description

Main job	Engineering - Design
Title of the position	Construction & Integration Engineer CIO-009
Job family	Engineer - 2
Grade	P3
Direct employment	Not required
Purpose	<p>To provide assistance to Design Integration in the area of Tokamak and in-pit.</p> <p>To support to the Area Manager to anticipate and solve potential issues related to the installation of major components and systems of the machine.</p> <p>Performs integration assessment of the interface situations between the components and systems (functional and physical);</p> <p>Monitors and controls the manufacturing of main Tokamak components in accordance to interface definition and functional tolerance requirements;</p> <p>Assesses assembly processes in an integrated manner for mechanical components on the basis of construction process documents;</p> <p>Supports the development of the assembly procurement strategy and the issuing of technical specifications;</p> <p>Ensures reliable control processes like design integration reviews, virtual reality meetings or model approval process;</p> <p>Assesses component tolerances on mechanical components on the basis of functional tolerance drawings in support to Deviation Request and Project Change Request;</p> <p>Ensures consistency between Process Flow Diagram/ Process and Instrumentation diagrams and components layout in the digital mock-up;</p> <p>Follows major ITER milestones and provides forecast and planning for the Tokamak Design Integration work, and also regular reports on group performance according to defined schedule;</p> <p>Manages volume reservations inside Cryostat (configuration management process ) under consideration of special needs for man access and tooling during installation and maintenance;</p> <p>Supporting of meeting preparation and post processes (writing actions, reports, CAD model approval forms (CMAF) and other configuration management related documentation);</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Schedule or Strategic Management Plan;</p> <p>May be requested to be part of any of the project team dealing with the above activities and perform other duties upon management request;</p> <p>Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p> <p>Under the coordination of the Area Manager for Tokamak &amp; in-pit, reports to the Design Integration Section / Division Head.</p> <p>Interfaces closely with the Construction Department, Tokamak Engineering Department and other ITER Departments and Project Teams, to ensure interface and requirements consistency;</p> <p>Interacts with the technical responsible persons for the components within IO and Domestic Agencies for all matters relating to Tokamak Integration;</p> <p>In response to requests from the Director-General and/or Integration Office (CIO) Head, or proactively, informs the DG/CIO 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> <p>Develops/reviews appropriate and understandable Construction Process documents compliant with Assembly processes and requirements;</p>
Main duties / Responsibilities	

Measures of effectiveness	Review and Complete Construction work packages in an exhaustive manner with respect to interface definition;
	Enhances in an exhaustive manner the definition of the Tokamak configuration (e.g. all tokamak volumes and interfaces between systems);
	Complete Assembly procurement activities in a timely manner;
	Manages and resolves interface issues following deviation requests or non-conformity reports during the whole construction and commissioning phase of the Tokamak.
Project Construction Phase	

Applicant criteria

Level of study	Master or equivalent degree
Diploma	Mechanical Engenineering field or other
Level of experience	At least 8 years
Technical experience/knowledge	Knowledge of basic mechanical & piping assembly technologies; Knowledge about rules of Configuration Control management;
	At least 8 years' experience covering the following topics: o Integration of large projects scientific and/or nuclear projects, involving large components and structures would be an advantage; Evaluation of interfaces, creation of related interface actions and follow up until resolution; o Coordination between different interface partners and maintain the communication; o Specific design, construction and assembly aspects of Tokamak systems should be highly advantageous.
	Social skills Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
	General skills - Excellent capability to interact with experts from different disciplines; - Organizational skills and autonomy for his/her of responsibility;
	- Good knowledge with CATIA V5 or similar CAD system; - Excellent knowledge of the Microsoft Office package; - Familiarity with schedule planning tools.
Languages	English (Fluent)