

IO1556 Tokamak Assembly Engineer CST-005

General information

Job category	Standard
Status	Published
Department	CST / Construction Department
Division	CST / Tokamak Assembly Section/Division

Job description

Main job	Engineering - Construction
Title of the position	Tokamak Assembly Engineer CST-005
Job family	Coordinating Engineer
Grade	P4
Direct employment	Not required
Purpose	<p>To elaborate and implement the Assembly Plan and Procedures for the vacuum vessel, port structures, and in-vessel systems and components;</p> <p>To develop an overall strategy for completing the installation of the hardware, focusing on integration, logistics, schedule and cost, for verifying system constructability through collaboration with the system design teams;</p> <p>As Responsible Officer for Vacuum Vessel Assembly Welding (VVAW), manage the execution of all the requirements of the associated assembly contract to quality, cost, and schedule and in cooperation with the Vacuum Vessel Project Team (VV PT).</p>
Main duties / Responsibilities	<p>Supports the Section/Division Head in matters related to the assembly of the vacuum vessel, port structures and in-vessel components;</p> <p>Develops and elaborates concepts for assembling and aligning the vacuum vessel, port structures and in-vessel components and systems;</p> <p>Elaborates assembly procedures, schedules, and resource forecasts and cost estimates for engineering and other technical activities relating to the execution of the work;</p> <p>Identifies and conceptualizes related assembly tooling;</p> <p>Harmonizes interfaces between components, tooling and assembly sequence and procedures, and initiates necessary design changes;</p> <p>Manages the assembly welding contract for the vacuum vessel and port structures;</p> <p>Participate in the Vacuum Vessel Project Team as required;</p> <p>Identifies and implements specific development tasks and/or feasibility studies which may be needed, including writing technical specifications, tendering and managing contracts where appropriate;</p> <p>Participates in the evaluation of the engineering designs of vessel and in-vessel components and systems and provides guidance on assembly aspects;</p> <p>Ensures compliance with the applicable Decrees, Directives, and Codes and Standards;</p> <p>Ensures the work is carried out in compliance with the requirements of the ITER quality system;</p> <p>Performs other duties in support of the project schedules described in the Detailed Work Schedule and the Strategic Management Plan;</p> <p>May be requested to belong to any project team dealing with 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>
Measures of effectiveness	<p>Reports to the Tokamak Assembly Section/Division Head;</p> <p>Interfaces directly with all ITER Organization Departments and Offices ;</p> <p>Directly interfaces with project team at all levels;</p> <p>In response to requests from the Director-General and/or Construction DepartmentHead, or proactively, informs the DG/Construction Department 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>Elaborates, maintains and implements the Assembly Plan for the vacuum vessel and port structures;</p>

	<p>Manages the VVAW contract to quality, schedule and cost;</p> <p>Generates and maintains coherent, comprehensive and understandable documentation;</p> <p>Maintains effective communication within the ITER Organization and with partner organizations;</p> <p>Completes the objectives set in agreement with the Tokamak Assembly Section/Division Head on schedule and to cost.</p>
	Project Construction Phase

Applicant criteria

Level of study	At least Master's Degree or equivalent
Diploma	Mechanical Engineering or other
Level of experience	At least 10 years
Technical experience/knowledge	<p>Knowledge of the French Quality Order and applicable EU Directives, including PED, ESPN, and Machinery Directive;</p> <p>Knowledge of Nuclear Construction Codes; knowledge of RCC-MR would be an advantage;</p> <p>Knowledge of the harmonized European codes and standards for the design, manufacture, testing and certification of machinery and tooling, including lifting tools.</p> <p>At least 10 years' experience related to the design, manufacture and site assembly of high quality mechanical systems in large, complex projects;</p> <p>Minimum of 5 years' experience in a coordinating role;</p> <p>Nuclear experience is required;</p> <p>Extensive knowledge of Quality Assurance systems and their practical application;</p> <p>Experience in the fusion related technologies, such as Ultra High Vacuum and cryogenic applications would be desirable;</p> <p>Demonstrated ability to deliver quality results on tight timescales;</p> <p>Experience of international procurement and tendering</p> <p>Project Management exp is required.</p>
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	<p>Proficiency in the use of the Microsoft Office suite of software;</p> <p>Experience of CAD, structural analysis and PLM software would be an advantage.</p>
Languages	English (Fluent)