

IO1575 Cryostat Engineer TED-022

General information

Job category	Standard
Status	Published
Department	TED / Tokamak Engineering Department
Division	TED / Vessel Division
Section	TED / VV / Cryostat & VVPSS Section

Job description

Main job	Engineering - Cryogenics
Title of the position	Cryostat Engineer TED-022
Job family	Coordinating Engineer
Grade	P4
Direct employment	Not required
Purpose	<p>To complete the design of the Cryostat including some components or interfaces of this system.</p> <p>To ensure procurement of the ITER Cryostat;</p> <p>To ensure coordination of all Cryostat interfaces with other ITER components and building, including penetrations and supports;</p> <p>To monitor manufacture follow-up, transportation, assembly, installation, and testing, commissioning activities of the Cryostat;</p> <p>To contribute to the development and procurement of the Vacuum Vessel Pressure Suppression System (VVPSS).</p>
Main duties / Responsibilities	<p>Is responsible for follow-up of the fabrication, assembly and commissioning of the Cryostat;</p> <p>Provides support to the detailed design, manufacture and assembly of the Cryostat;</p> <p>Reviews the manufacturing documents with a focus to the safety aspects of the Cryostat;</p> <p>Reviews the manufacturing design, construction and assembly documentation of the Cryostat, including materials, factory manufacturing, vacuum leak testing and final integrated leak testing of the Cryostat;</p> <p>Develops and establishes the procurement arrangement and technical specifications for the Cryostat with the Domestic Agency (DA);</p> <p>Provides support in the licensing activities for safety design and assessment of the safety related functions, including technical requirements such as codes and standards;</p> <p>Is responsible for the consistency of the Cryostat construction planning in relation to the ITER construction, commissioning and operation plan;</p> <p>Works in close contact with the ITER groups/divisions in charge of the ITER components and buildings interfaced with the Cryostat and design integration for on-site installation and assembly;</p> <p>Performs other duties in support of the project schedule, as described in the Detailed Work Breakdown Structure 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>Reports to the Cryostat & VVPSS Section Leader;</p> <p>Works in close contact with DAs and the ITER sections/divisions in charge of the ITER components and buildings interfaced with the Cryostat and design integration for on-site installation and assembly;</p> <p>Acts as an interface between all the ITER systems within the ITER organization, as well as interface with the relevant DA;</p> <p>In response to requests from the Director-General and/or Head of the Tokamak Engineering Department (TED), 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.</p> <p>Successfully generates and maintains coherent, comprehensive, and understandable design documentation for the Cryostat;</p>

Measures of effectiveness	<p>Manages the Cryostat interfaces design with other tokamak systems;</p> <p>Manages the oversight of the Cryostat fabrication and coordination and communication with the DA;</p> <p>Completes procurement activities of the Cryostat in a timely manner and within defined costs;</p> <p>Initiative to understanding the design and manufacturing at the IO and effective coordination with the IO-Central Team and DA staff;</p> <p>Successfully maintains effective communications within the ITER Organization.</p> <p>SAP ID: 50000194</p> <p>Project Construction Phase</p>
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Applicant criteria

Level of study	At least Master's Degree or equivalent
Diploma	Mechanical Engineering field or other
Level of experience	At least 10 years
Technical experience/knowledge	<p>Good knowledge in high vacuum aspects of manufacturing of mechanical components, codes & standards and quality assurance is highly desirable;</p> <p>At least 10 years relevant experience in design, construction and installation of large pressure vessels/vacuum vessels and/or nuclear devices;</p> <p>Experience in fabrication technology (forming, welding and non-destructive examination) of large welded structures and familiarity with conventional pressure vessel codes, such as ASME;</p> <p>Basic experience on design and technical requirements of the ITER mechanical components and tokamak assembly would be an advantage;</p> <p>Good Project Management experience such as planning, scheduling and progress reporting expertise is required;</p> <p>Experience in providing technical guidance, coordinating and monitoring activities.</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
	Ability to communicate clearly and write technical reports and specifications in English.
Languages	English (Fluent)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)