

## ITER 국제기구 공모 직위 직무기술서 (제149차)

### ○ 1개 직위

구분	분야	소속	직위	Job No.	등급
①	토카막 엔지니어링 (TED)	Vessel Division Cryostat & VVPS Section	Cryostat Engineer	TED-030	P4

# IO1702 Cryostat Engineer - TED-030

## 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-030
Job family	Coordinating Engineer
Grade	P4
Direct employment	Not required
Purpose	<p>To ensure the procurement of the cryostat and its sub-systems. To monitor the assembly &amp; testing of these systems.</p> <p>To complete the design and development of the technical specifications for Torus Cryo-Pump Housings (TCPH) and rectangular bellows and finalize the Procurement Arrangement (PA) documentation, to ensure coordination of all interfaces with other ITER components and building, including penetrations and supports.</p> <p>Is responsible for completing the design of the Cryostat systems, such as TCPH and rectangular bellows, including instrumentation;</p> <p>Is responsible for follow-up of the fabrication, assembly and commissioning of the Cryostat;</p> <p>Reviews the manufacturing documents with a focus to the high vacuum 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 place holder sub-systems of the signed Cryostat PA with the Indian Domestic Agency;</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>Provides support to the detailed design, manufacture and assembly of the Vacuum Vessel Pressure Suppression System (VVPSS), as required;</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>
Main duties / Responsibilities	<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 &amp; VVPSS Section Leader;</p> <p>Interfaces with all other departments within the ITER Organization as required;</p> <p>Acts as an interface between all the ITER systems within the ITER organization, as well as interface with the relevant Domestic Agency (DA);</p> <p>In response to requests from the Director-General (DG) and/or Tokamak Engineering Department (TED) Head, 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;</p>

Measures of effectiveness	<p>Manages cryostat interfaces design with other Tokamak systems;</p> <p>Manages the oversight of Cryostat fabrication and coordination and communication with the DA;</p> <p>Completes procurement activities of Cryostat in a timely manner and within defined costs;</p> <p>Initiative to understanding of the design and manufacturing at the ITER Organization (IO) and an effective coordination with the IO and DA staff;</p> <p>Successfully maintains effective communications within the ITER Organization.</p>
	Project Construction Phase

## 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>Competent expertise, in particular, in the area of high vacuum aspects of manufacturing of mechanical components, codes &amp; standards and quality assurance is highly desirable; 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 vacuum vessel 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>Project experience:</p> <p>High experience either in the project itself or be specialist in the technical field of the job description;</p> <p>Basic Project Management experience such as planning, scheduling and progress reporting expertise 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>People Management experience:</p> <p>Providing the technical guidance and monitoring the work of the supporting staff and work in a team.</p>
Languages	English (Fluent)