

ITER 국제기구 공모 직위 직무기술서 (제180차)

○ 1개 직위

구분	분야	소속	직위	Job No.	등급
①	플랜트 엔지니어링 (PED)	Cooling Systems Engineering Division Cooling Water System Section	Cooling Water Engineer	PED-028	P2

IO1806 Cooling Water Engineer - PED-028

General information

Job category	Standard
Status	Published
Department	PED / Plant Engineering Department
Division	PED / Cooling Systems Engineering Division
Section	PED / CSED / Cooling Water System Section

Job description

Main job	Engineering - Mechanics
Title of the position	Cooling Water Engineer - PED-028
Job family	Engineer - 1
Grade	P2
Direct employment	Not required
Purpose	<ul style="list-style-type: none">-To contribute to the Final Design and Procurement of the ITER Cooling Water Systems (CWS) under India Domestic Agency (IN-DA) scope (i.e. Component Cooling & Chilled Water System and Heat Rejection System - CCWS, CHWS and HRS), providing technical assistance to the CWS Responsible Officer for the resolution of technical, scope, considering cost and schedule constraints.-To ensure that system components meet project requirements and are delivered on time.-To assist the assembly, the commissioning and the operation of the ITER Cooling Water Systems.
Main duties / Responsibilities	<ul style="list-style-type: none">-Contributes to the completion to the Final Design and procurement of the Cooling Water Systems under IN-DA scope in a timely manner properly following the time schedule;-Contributes to the approval process for all the pending Project Change Requests (PCR) that impact the defined scope;-Completes the assessment of the impact on the physical and functional requirements for the concerned cooling water systems, updating the relevant interface documents also considering the impact of ongoing PCRs ;-Contributes to the preparation of the Manufacturing Readiness Reviews prepared by IN-DA;-Monitors of the Manufacturing and Inspection Plans issued by the manufacturers of IN DA for the procurement of equipment for both early and final delivery stages.-Monitors the time schedule for the procurement of piping and equipment both for early and final stages;-Contributes to the resolution of all the Non Conformities issued by the Manufacturers;-Monitors of the consistency of the CWS construction planning in relation to the ITER construction, commissioning and operation plans;-Contributes to prepare/approve test plans, procedures, and acceptance criteria (e.g. Factory Acceptance Tests) testing and commissioning;-Ensures accurate interface control and schedule performance through close collaboration with the ITER teams responsible for design, procurement, and installation of CWS client components and systems;-Assists in solving ongoing issues with high relevance to the design, procurement and installation of CWS systems;-Performs other duties in support of the project schedule;-May be requested to be part of any of the project/construction team dealing with the above activities and perform other duties upon management request-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics. -Reports to Cooling Water System Section Leader;-Acts as an interface between personnel throughout the ITER Organization and Domestic Agencies(DAs) on cooling water matters;-Assist the Responsible Officer for IN-DA scope for Cooling Water Systems (CCWS, CHWS ad HRS) to the concerned technical scope;-In response to requests from the Director-General and/or Plant Engineering Department Head

(PED), or proactively, informs the DG/Head of PED 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.

Measures of effectiveness

- Ensures efficiently the consistency of the CWS construction plan in relation to the ITER construction, commissioning and operation plans;
- Ensures that the Engineering work packages for CCWS, CHWS and HRS are timely produced by IN DA and or IO Central Team in coherency with the Construction Plan.
- Ensures an efficient and timely support to the CWS SL and TROs to finalize the physical and functional requirements for the concerned CWS systems and to update the relevant interface documents.
- Ensures an efficient and timely support to the CWS SL,TROs and Commissioning Engineer to prepare the phased Commissioning Specifications and Procedures of the concerned CWS systems.
- Ensures an efficient and timely support to the CWS TRO to monitor the MIPs, to resolve the Non Conformities, to attend to FATs and to check the Quality Data Packages and other Contractual documents prepared by IN-DA and subcontractors for the deliveries of the components;
- Assure that during the CCWS, CHWS and HRS site testing and commissioning respect the functional requirements .

Project Construction Phase
ID SAP: 50000209

Applicant criteria

Level of study	Master or equivalent degree
Diploma	mechanical or nuclear engineering or equivalent
Level of experience	At least 5 years
Technical experience/knowledge	<ul style="list-style-type: none"> -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; -Knowledge of ASME piping and pressure vessel design standards; familiarity with application of European/French pressure equipment directives and French nuclear regulations is an advantage. -At least 5 years' relevant experience in the design and construction, of cooling water systems and/or expertise for the mechanical design/analysis of piping and components, water chemistry, and layout in Fusion research facilities or Nuclear Industry; -At least 5 years' experience in the preparation/modification of process flow diagrams, piping and instrumentation diagrams, technical specifications, engineering calculations, piping stress analyses, and similar system design documents;
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit, Ability to organize and monitor activities, Ability to communicate effectively
General skills	<ul style="list-style-type: none"> -Experience in the fabrication and testing of centrifugal pumps, vertical pumps, plate heat exchangers, chillers, water polishing equipment, and/or mechanical draft cooling towers is an advantage; -Basic Project Management experience is required.
Languages	English (Fluent)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	<ul style="list-style-type: none"> -Ability to write clearly and concisely, and to summarize and communicate complex issues objectively; -Able to effectively use Microsoft Office automation tools; -Able to effectively use software codes for CAD 2D drawings and 3D models using CATIA/ENOVIA and AVEVA E3D. -Ability to use software codes for thermal-hydraulic and thermo-mechanical analyses is an advantage.

