

## ITER 국제기구 공모 직위 직무기술서 (제187차)

### ○ 1개 직위

구분	분야	소속	직위	Job No.	등급
①	플랜트 엔지니어링 (PED)	Tokamak Cooling Water System Division Tokamak Cooling Water System Design Section	Cooling Water Piping Engineer	TCWS-032	P3

# IO1824 Cooling Water Piping Engineer - TCWS-032

## General information

Job category	Standard
Status	Published
Department	PED / Plant Engineering Department
Division	PED / Tokamak Cooling Water System Division
Section	PED / TCWS / Tokamak Cooling Water System Design Section

## Job description

Main job	Engineering - Mechanics
Title of the position	Cooling Water Piping Engineer - TCWS-032
Job family	Engineer - 2
Grade	P3
Direct employment	Not required [Job offer for 3-year contract]
Purpose	<p>Within the defined cost and schedule:</p> <ul style="list-style-type: none"> <li>-To finalize piping and support design for the Tokamak Cooling Water System (TCWS),</li> <li>-To manage procurement and installation of piping, supports and valves for the TCWS,</li> <li>-To oversee the installation and testing of TCWS piping and equipment.</li> </ul>
Main duties / Responsibilities	<ul style="list-style-type: none"> <li>-Manages procurement and installation of piping, supports, and valves for the TCWS;</li> <li>-Oversees the installation and testing of TCWS piping and equipment;</li> <li>-Coordinates the work of the stress analysts and support designers and assign their daily tasks;</li> <li>-Supports TCWS equipment final design and procurement according to ASME VIII div. 2;</li> <li>-Ensures that the TCWS piping and equipment design is properly integrated on the ITER site and with the interfacing clients;</li> <li>-Reviews documents, configuration models and drawings (including P&amp;IDs);</li> <li>-Provides interface loads to interfacing systems;</li> <li>-Ensures that TCWS piping and equipment is compliant with the ESP-ESPN (Nuclear Pressurized Equipment (from French "Equipements Sous Pression Nucléaire") French rules;</li> <li>-Analyzes and checks the stress analyses of the TCWS piping systems and update the TCWS load specification accordingly;</li> <li>-Ensures that the TCWS piping and equipment design is properly integrated, installed and finally tested on the ITER site and with the interfacing clients;</li> <li>-Performs other duties in support of the project schedule;</li> <li>-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</li> </ul>
Measures of effectiveness	<ul style="list-style-type: none"> <li>-Reports to the Tokamak Cooling Water System Design Section Leader;</li> <li>-Acts as an interface between the TCWS Design Section, Designers, and Domestic Agencies' staff and suppliers to monitor and support development and update of the Configuration and Detailed Models and stress reports;</li> <li>-Acts as an interface between the TCWS Design Section and the interfacing clients and user systems for the Configuration and Detailed Model drawings and for interface loads;</li> <li>-In response to requests from the Director-General (DG), Head of Plant Engineering Department (PED), and/or TCWS Division Head, or proactively, informs Management 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.</li> <li>-Oversees the Tokamak Cooling Water System (TCWS) piping and pressure equipment design, and procurement, installation and testing within the defined cost and schedule;</li> <li>-Provides all inputs necessary to design, procurement, and Pre-assembly of the TCWS according to the defined schedule;</li> <li>-Communicates effectively with other stakeholders and peers within the ITER Organization.</li> </ul>
	Project Construction Phase

## Applicant criteria

Level of study	Master or equivalent degree
Diploma	Mechanical or Nuclear Engineering
Level of experience	At least 8 years
Technical experience/knowledge	<p>At least 8 years of technical experience in the design and procurement of complex and large piping systems and pressure vessels according to ASME B31.3 and ASME XIII div. II;  Experience in application of ESP and ESPN;  At least 5 years' experience in project management;  Experience in installation and testing of complex industrial system will be considered as advantage.</p> <p>Excellent knowledge of integrated system design and procurement of complex piping and on line components;  Excellent knowledge and experience in applying ASME B31.3, ASME XIII div. 2, ESP and ESPN;  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.</p>
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
Languages	English (Fluent)
Specific skills	<p>MS Office standard (Word, Excel, PowerPoint, Outlook)</p> <p>-Excellent knowledge of software for stress analysis and support design (Caesar II, GT Strudl, etc.)</p>
Others	<p>-Excellent knowledge of software applications for development of 3D model and 2D schematics;  -Knowledge of FEM analysis for the design of pressure vessels and support structures;  -Good knowledge of Microsoft Office.</p>