

## ITER 국제기구 공모 직위 직무기술서 (제208차)

### ○ 1개 직위

구분	분야	소속	직위	Job No.	등급
①	플랜트 엔지니어링 (PED)	Tokamak Cooling Water System Division Tokamak Cooling Water System Design Section	TCWS Instrumentation & Controls Engineer	TCWS-035	P3

# IO1867 TCWS Instrumentation & Controls Engineer TCWS-035

## 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 - Control system
Title of the position	TCWS Instrumentation & Controls Engineer TCWS-035
Job family	Engineer - 2
Grade	P3
Direct employment	Not required Three-year contract
Purpose	<p>To specify and develop the global functional analysis, architecture and process control for the Tokamak Cooling Water System (TCWS) and prepare and develop the testing, commissioning and pre-operation of TCWS.</p> <ul style="list-style-type: none"><li>-Develops the global functional analysis, architecture and process control for TCWS;</li><li>-Works in strict collaboration with the process engineers to well integrate the process design into the I&amp;C design;</li><li>-Responsible for the preparation and review of Technical Specifications and the overall design of the I&amp;C for TCWS;</li><li>-Manages external Instrumentation &amp; Controls (IC) design and components contracts as needed;</li><li>-Manages the schedule for the testing, and commissioning of TCWS I&amp;C;</li><li>-Supports the electrical design of the TCWS;</li><li>-Monitors and contributes to the final acceptances of TCWS components and sub-systems procured by Domestic Agencies and/ or relevant manufacturers;</li><li>-Reviews and check the final acceptance tests of in-kind components as specified in the relevant procurement arrangement;</li><li>-Controls the operation and maintenance of the system during the pre-operational phase;</li><li>-Develops, maintains and reviews commissioning, testing, operation and maintenance procedures for TCWS;</li></ul>
Main duties / Responsibilities	<ul style="list-style-type: none"><li>-Prepares and carries out training courses for the operators of TCWS;</li><li>-Contributes to quality assurance and to management of interface issues in relation with Quality Assurance and Assessment Division;</li><li>-Performs other duties in support of the project schedule;</li><li>-May be requested to be part of any of the project/construction teams and to perform other duties;</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 TCWS Design Section Leader;</li><li>-Interfaces with other ITER Technical Departments as required; Maintains communication with other organizations within the ITER collaboration and the fusion community;</li><li>-In response to requests from the Director-General and/or Head of the Plant Engineering Department (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.</li><li>-Prepare and review design documentation in a timely manner;</li><li>-Prepare and review equipment technical specification in a timely manner;</li><li>-Prepare and review commissioning plans (as well as acceptance tests plans and reports) in a timely manner;</li><li>-Communicates with the ITER machine assembly and operation engineers and designers;</li><li>-Communicates with other Domestic Agencies and their Subcontractors within the ITER</li></ul>

collaboration and the fusion community.

Project Construction Phase  
SAP Id: 50003097

## Applicant criteria

Level of study	At least Bachelor's degree or equivalent
Diploma	Electrical, Electronic or Process Engineering
Level of experience	At least 10 years
Technical experience/knowledge	<ul style="list-style-type: none"><li>-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,</li><li>-At least 10 years' experience in the design of Instrumentation and Controls for large installations, within international environment, and preferably in the nuclear field;</li><li>-At least 5 years' experience in the commission and/or operation of complex installations, preferably in the nuclear field;</li><li>-Previous experience with the testing and operation of large and complex cooling water system would be highly desirable;</li><li>-Good Project Management experience is required.</li></ul>
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	MS Office standard (Word, Excel, PowerPoint, Outlook)