

# IO1373 Project Engineer TCWS-003

## General information

Job category	Standard
Status	Published
Department	DIP/Directorate for Central Engineering & Plant

## Job description

Main job	Project Management - Generalist
Title of the position	Project Engineer TCWS-003
Job family	Engineer - 2
Grade	P3
Direct employment	Not required
	[Job offer for 3-year contract]
Purpose	<p>To manage and coordinate the Tokamak Cooling Water System Final Design. The ITER Tokamak Cooling Water System (TCWS) has 3 separate primary heat transport systems supported by three additional systems, with a requirement to remove approximately 1,000 MWT of heat. The systems perform a safety function for confinement of radioactive material, confinement of high energy liquid, and decay heat removal which is generally lower in magnitude (less radioactive material, pressure, and decay heat) but of similar function to commercial fission reactors. The systems have 33 km of nuclear-grade piping, which is a comparable size to a commercial fission reactor water system. The TCWS system is complex due to specialized features such as draining and baking functions that use heaters and pressurized gas.</p>
Main duties / Responsibilities	<p>Leads and manages the TCWS final design project inclusive of the preparation of technical specifications for procurement and assembly;</p> <p>Is responsible for the design and integration of the ITER tokamak cooling water systems (TCWS) coordinating the activities and ensuring the work is performed collaboratively with the Organization internal and external interfaces and the concerned Domestic Agencies (DAs);</p> <p>Delivers the required design documentation for TCWS systems according to schedule;</p> <p>Develops project and risk plans according to recognized best practice;</p> <p>Maintains project plans, milestones, change control and risk plans;</p> <p>Carries out regular project reviews;</p> <p>Ensures flow-down of requirements, implementation of nuclear safety guidelines and quality assurance standards in all the activities performed;</p> <p>Is responsible for configuration management for the TCWS system;</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan;</p> <p>Performs other duties linked to the above purpose upon management request, as necessary;</p> <p>Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p>
Measures of effectiveness	<p>Reports to the Director of the Central Engineering and Plant Directorate;</p> <p>Acts as an interface with internal and external resources to coordinate the design of the Tokamak Cooling Water System;</p> <p>In response to requests from the Director-General, or proactively, informs the DG 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>Manages the design of the TCWS;</p> <p>Coordinates the design activities of the TCWS;</p> <p>Implement project management techniques for the monitoring of the design of the TCWS;</p> <p>Manages the interfaces of the TCWS;</p> <p>Maintains project plans, milestones, change control and risk plans.</p>
	Project Construction Phase

## Applicant criteria

Level of study	At least Master's Degree or equivalent
Diploma	Engineering or equivalent
Level of experience	At least 8 years
Technical experience	<p>At least 8 year's experience in Project Engineering of the design of complex industrial installation in the nuclear field;</p> <p>At least 5 years' experience in managing design contracts and technical objectives, cost, schedule and risk of a project;</p> <p>Technical ability to design nuclear plant cooling systems and components;</p> <p>Knowledge of design codes and standards;</p> <p>Proficiency in industrial cooling water components and processes;</p> <p>Experience in supervising and coordinating technical activities.</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 (Working)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	Project Management Certification will be considered as an advantage.