

# Job Title: Cooling Water System Operation Responsible Officer SCOD-105

Req ID 968 - Posted 26/11/2019 - (France, 13067 St Paul Lez Durance Cedex) - **Machine Operations - New Posting**

The ITER Organization brings together people from all over the world to be part of a thrilling human adventure in southern France—building the ITER Tokamak. We require the best people in every domain.

We offer challenging full time assignments in a wide range of areas and encourage applications from candidates with all levels of experience, from recent graduates to experienced professionals. Applications from under-represented ITER Members and from female candidates are strongly encouraged as the ITER Organization supports diversity and gender equality in the workplace.

Our working environment is truly multi-cultural, with 29 different nationalities represented among staff. The ITER Organization Code of Conduct gives guidance in matters of professional ethics to all staff and serves as reference for the public with regards to the standards of conduct that third parties are entitled to expect when dealing with the ITER Organization.

The south of France is blessed with a very privileged living environment and a mild and sunny climate. The ITER Project is based in Saint Paul-lez-Durance, located between the southern Alps and the Mediterranean Sea—an area offering every conceivable sporting, leisure and cultural opportunity.

**Application deadline:** 12/01/2020

**Domain:** Science & Operation

**Department:** Science, Controls & Operation

**Division:** Operations

**Section:** Not Applicable

**Job Family:** Project Engineering

**Job Role:** Coordinating Engineer

**Job Grade:** P4

**Language requirements:** Fluent in English (written & spoken)

**Contract duration:** Up to 5 years

## Purpose

To be responsible for the safe, efficient and reliable operation of the secondary cooling water system of the ITER facility.

## Background information:

The Operations Division is responsible for developing plans, procedures and for implementation of commissioning, operation and maintenance of the ITER Tokamak and plant systems. The secondary cooling water system provides chilled water and water cooling to client systems across the ITER facility via several different circuits. Thermal energy is rejected to the environment through cooling towers.

## Major Duties/Responsibilities

- Responsible for the safe, reliable and efficient operation of the secondary cooling water system, the commissioning cooling water subsystems and of multiple interfaces as they are turned over to clients;
- Defines the system's concept of operation and identifies the required operating procedures, skills and resources;
- Coordinates procedures writing;
- Defines the system maintenance and inspection plan and manages reliability and availability of the system;
- Plans, authorizes and supervises maintenance activities, then reviewing maintenance and inspection reports and implementing corrective actions when necessary;

- Ensures necessary spares are planned and procured;
- Monitors tendering processes and manages maintenance and technical support contracts;
- Produces regular reports of operational performance, availability and environmental impact;
- Supervises chemical and biological monitoring of the system in accordance to regulatory requirements and operation's needs;
- Supports the "Shift Operations Manager" to ensure the availability of the facility and to satisfy the experimental program;
- Required to work shifts outside normal working hours, including nights, weekends and public holidays;
- May be required to be part of any of the project/construction teams and to perform other duties in support of the project schedule.

## Measures of Effectiveness

- Ensures safe and efficient operation and achieves the required system reliability and availability of the service for the clients;
- Minimises the environmental impact of the system operations and ensures compliance with all regulations in order to prevent health and safety risks;
- Optimises electrical power consumption and the overall running costs of the system;
- Issues accurate reports within the defined frequency and timeline;
- Contributes to a safe working environment by ensuring all activities are properly authorised and tracked and performing some internal inspections.

## Qualifications and Experience

- *Professional Experience:*
  - At least 12 years' experience in a position of accountability and responsibility for the operation of cooling water plants in large-scale facilities.
- *Level of study:*
  - Bachelor's degree or equivalent in process engineering or related field;
  - The education degree requirement may be satisfied by extensive professional experience involving similar work responsibilities and/or additional training certificates in relevant domains.
- *Language requirements:*
  - Fluent in English (written and spoken).
- *Technical Competencies and demonstrated experience in:*
  - The processes and equipment for cooling water systems including chillers, large pumps, heat exchangers, and the associated control systems;
  - Analysing and determining root cause of problems, interacting with stakeholders to find and implement solutions based on technical expertise in cooling water systems;
  - Performing tasks within cost and schedule, reporting on progress and issues in a timely manner;
  - Learning rapidly and applying new standards and regulations (i.e. French and European);
  - Proficiency in office software suite (MS Office : Word, Excel, Outlook);
  - Applying French or European nuclear regulations would be considered as an advantage.
- *Social skills:*
  - Collaborate: Ability to dialogue with a wide variety of contributors and stakeholders;
  - Communicate Effectively: Ability to adjust communication content and style to deliver messages to work effectively in a multi-cultural environment;

- Drive results: Ability to persist in the face of challenges to meet deadlines with high standards;
- Manage Complexity: Ability to gather multiple and diverse sources of information to understand problems accurately before moving to proposals;
- Instill trust: Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.

---

***The following important information shall apply to all jobs at ITER Organization:***

- Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, ITER Values (Trust; Loyalty; Integrity; Excellence; Team mind set; Diversity and Inclusiveness) and Code of Conduct;
- ITER Core technical competencies of 1) Nuclear Safety, environment, radioprotection and pressured equipment 2) Occupational Health, safety & security 3) Quality assurance processes. Knowledge of these competencies may be acquired through on-board training at basic understanding level for all ITER staff members;
- Implements the technical control of the Protection Important Activities, as well as their propagation to the entire supply chain;
- May be requested to work on beryllium-containing components. In this case, you will be required to follow the established ITER Beryllium Management Program for working safely with beryllium. Training and support will be provided by the ITER Organization;
- May be requested to be part of any of the project/construction teams and to perform other duties in support of the project;
- Informs the IO Director-General, Domain Head, or Department/Office Head of any important and urgent issues that cannot be handled by line management and that may jeopardize the achievement of the Project's objectives.