Job Title: Power System Operations Coordinator IO1111

Requisition ID **6281** - Posted - (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 a 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.

To see why ITER is a great place to work, please look at this video

Application deadline: 26/06/2022
Domain: Science & Operation Domain
Department: Science, Controls & Operation Department
Division: Operations Division
Section: Commissioning & Op. Readiness Section
Job Family: Commissioning & Operations
Job Role: Coordinating Operations Engineer
Job Grade: P4
Language requirements: Fluent in English (written & spoken)
Contract duration: Up to 5 years

Purpose

As a Power/Electrical System Operations Coordinator, you will supervise the operation of the Coils Power Supplies (CPS) system, ensuring it is reliable as available. You will also coordinate the commissioning activities for the CPS subsystems and manage multiple complex interfaces as the systems/subsystems are turned over to clients.
Throughout all activities, you will ensure that the CPS systems and its subsystems are managed safely, reliably and efficiently.

Background

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 CPS system provides DC power supply and protections to superconducting coils of the ITER facility via several different circuits. This system predominantly functional interfaces with Plasma Control Coils protection systems and Reactive Compensation system.

Key Duties, Scope, and Level of Accountability

- Coordinates the safe, reliable and efficient operation of the CPS system and of multiple interfaces as they are turned over to clients;
- Coordinates the commissioning of the CPS subsystems and manages multiple interfaces as they are turned over to clients;
- Defines and updates the system's concept of operation and develops the operating procedures, skills and resources required for successful operation;
- Defines the system's maintenance and inspection plans and manages the reliability and availability of the system;
- Plans, authorizes and supervises maintenance activities, then reviews maintenance and inspection reports, 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;
- Supports the "Shift Operations Manager" to ensure the availability of the facility and to satisfy the experimental program;
- May be requested to be part of any of the project/construction teams and to perform other duties in support of the project;
- May be required to work outside ITER Organization reference working hours, including nights, week-ends and public holidays.

Measure 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;
- Develops effective operation procedures which minimise any risk to the system/subsystems, in line with relevant regulations;
- 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, tracked and by performing internal inspections/audits;
- Assures that IO's goals are achieved in a timely and effective manner, which meets safety, quality, cost and schedule targets;
- Alerts line management promptly on possible risk areas with appropriate preventive and corrective action plan(s).

Experience & Profile

- ***Professional Experience:***
  - Minimum 10 years' experience in managing the commissioning and operation of pulsed high power electrical distribution systems, like AC/DC converters and Reactive Power Compensation systems in large-scale facilities within complex international environments or projects.
- ***Education:***
  - Master's degree or equivalent in process engineering, electrical 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:***
  - Electrical Engineering: The processes and components for pulsed power distribution systems including HV Transformers, water cooled thyristors bridges, direct current switches (high

power), Direct Current components, water cooled electrical components and the associated control systems including fast controllers;
    - Electrical Standards: Good knowledge of French and/or international electrical standards and operation criteria for nuclear safety relevant systems;
    - Quality Control: Verifying the compliance of the procedures for the installation of high power components and associated auxiliary systems with all applicable requirements;
    - Analysing and determining root cause of problems, interacting with stakeholders to find and implement solutions based on technical expertise in high current AC/DC conversion systems;
    - Project Management: Monitoring/following up contracts for commissioning and operation of large electrical components/subsystems within cost and schedule;
    - Performing tasks within cost and schedule, reporting on progress and issues in a timely manner.
- ***Behavioral Competencies:***
    - Collaborate: Ability to facilitate 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 analyze multiple and diverse sources of information to understand/define 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.