

Job Title: Electrical Technician IO1040

Requisition ID **4440** - Posted - (France, 13067 St Paul Lez Durance Cedex) - **Engineering of Systems - 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: 29/09/2021

Domain: Science & Operation

Department: Science, Controls & Operation

Division: Operations

Section: Electrical Power Distribution

Job Family: Engineering

Job Role: Coordinating Technician

Job Grade: G5

Language requirements: Fluent in English (written & spoken)

Contract duration: Up to 5 years

Purpose

In this role, you will operate and perform in-field engineering improvements to the Electrical Power Distribution (EPD) systems, and coordinate necessary activities with maintenance team. Additionally, you will manage contracts regarding the EPD systems future evolutions.

Background

Electrical Power Distribution System (ELC) is composed of high voltage substations connected to the French grid at 400kV. For steady-state clients, the system distributes power at 22 kV to several Medium Voltage substations powering the biggest loads at 6.6kV, and to Load Centers are delivering 400V to all plant systems. For pulsed clients, the system distributes power at 66 kV and 22 kV to coils power supplies and plasma heating systems.

The position is to safely operate the High and Medium voltage system within the Electrical Distribution group responsibility, which represent several hundreds of MW installed power.

Key Duties, Scope, and Level of Accountability

- Operates the electrical distribution networks, including high and medium voltage parts;
- Prepares and/or updates the operation procedures of different electrical system according the operation experience feedback; Defines and prepares the missing procedures;
- Drafts the technical specifications of work to be contracted in the field of electrical distribution upgrades;
- Supervises and coordinates activities for contractors working on electrical distribution upgrades;
- Participates in the investigations and troubleshooting of electrical distribution issues by performing necessary tests and analyses the results in order to propose solutions to the problem;
- Participates in the commissioning of plant systems interfaces with electrical network, and organizes the recording of key signals and analyses the results comparing them with theoretical calculations/simulations;
- Participates with the on-duty electrical team, and manages actions related to electrical distribution network (including the interfaces with Grid Operator) outside the working hours 7/7;
- 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

- Produces deliverables in accordance with deadlines and quality defined by the Leader of Electrical Power Distribution Section and the Head of the Operations Division;
- Controls cost and schedule all contracts under his responsibility;
- Manages interface between ITER Divisions and Domestic Agencies and maintains effective communications with all parties delivering subsystems;
- Develops, in agreement with the ITER SMP, cost effective maintenance plans and effectively follows up the maintenance activities of time critical electrical components within defined schedule;
- Participates with other operation/maintenance discipline leaders to the global ITER maintenance program and proposes improvements regarding the electrical part as needed.

Experience & Profile

- **Professional Experience:**
 - Minimum 7 years' experience in operation, maintenance and troubleshooting in the field of electrical components and systems, within complex and highly regulated international environments or projects.
- **Education:**
 - Post-secondary degree or equivalent in Electrical distribution domain or other relevant discipline;
 - The required education degree may be substituted by extensive professional experience involving similar work responsibilities and/or additional training certificates in relevant domains.
- **Language requirements:**
 - Fluent in English (written and spoken).

- Working knowledge of French (written and verbal) is considered as advantageous.
- ***Technical Competencies and demonstrated experience in:***
 - Operating high voltage and medium voltage distribution networks;
 - Supervising high and low electrical systems according French electrical standards;
 - Quality management: knowledge of international requirements, regulations, methods and practices relevant to electrical safety within high and medium voltage environment;
 - Performing electrical network design using software tools
 - Writing and presentation: write and / or review technical documents, operation procedures, and other documentation, transmitting data with precision and clarity;
 - Project management: planning, measuring progress of work, managing risks, costs, and reporting on a program or initiative within the constraints of human and financial resources.
- ***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 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.