

## Job Title: Electrical Technician IO0423/IO0863

Requisition ID **7516** - Posted - (France, 13067 St Paul Lez Durance Cedex) - **Construction and Installation - New Posting**

Fusion, the nuclear reaction that powers the sun and the stars, is a promising long-term option for a sustainable, non-carbon emitting global energy supply.

The ITER Organization (IO), based in the southern France, welcomes best talents who can together prepare the way to this new energy in a truly multi-cultural work environment.

We offer challenging assignments in a wide range of areas and encourage applications from candidates with all levels of experience. Applications from under-represented ITER Members' nations and women candidates are strongly encouraged, as IO strongly believes that a diversified, equitable, and inclusive workplace is crucial in solving one of the most complex scientific and engineering projects in the world today.

As the IO attracts and retains people coming from a vast array of different backgrounds and cultures, discrimination and exclusion cannot be tolerated. The IO believes it is our diverse perspectives and background that gives unique strength and value to the ITER mission, regardless of race, member nation, gender, religion, status, sexual orientation, or disability - all are welcome and respected at ITER.

ITER CARE Values (Collaboration / Accountability / Respect / Excellence):

We perform our work with care, we care for the well-being of colleagues, our families and ourselves, and we care about the health of the planet for generations to come. CARE drives our work and our behaviors at ITER.

To see why ITER is a great place to work, please look at this [video](#)

**Application Deadline:** 25/08/2024

**Department:** ITER Construction Project

**Division / Program:** Plant Installation Program

**Section / Project:** Electrical Systems Installation Project

**Group:** Not applicable

**Job Family:** Construction

**Job Role:** Technician – 3

**Job Grade:** G4/G5

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

**Contract Duration:** Up to 5 years

*The ITER Organization is opening multiple vacancies. The selection process will be conducted with the objective of filling **one vacant position** with also the purpose of drawing up a reserve list of rostered candidates for future vacant positions. The reserve list initially remains valid for two years, with the possibility of extension at the Director General's discretion.*

### Overview

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***Do you have an interest in the whole lifecycle engineering activities of large DC current high voltage (up to 80 kV) or high current (up to 70 kA) and high power (up to 60 MVA) voltage source and current source power converters, and power distribution system (ranging from 400 V to 400 kV), including electrical tests for ITER plant?***

***As an Electrical Technician, your goals include:***

*Assuring the Operator Supervision Rule during electrical systems installation in all ITER buildings.*

*Coordination and supervision of the Domestic Agency's (Das) pre-selected electrical contractors working in the same buildings.*

**Success in this role includes:**

- Prepares and/or updates the operation procedures of different electrical system according to the operation experience feedback; Defines and prepares the missing procedures;
- Follows up the resolution of the field engineering changes, and installation non-conformance related to his/her area of competency.

### **Key Duties, Scope, and Level of Accountability**

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- **Primary Responsibilities**

- Participates in the engineering design, manufacturing supervision, construction, testing, commissioning, and system integration of electrical components and systems;
- Contributes to the development of plans and procedures for the activities to be performed, including the coordination of electrical contractor activities;
- Collaborates in the investigations and troubleshooting of electrical distribution issues by performing necessary tests and analyses the results to propose solutions to the problem.
- Runs the analysis of components and integrated system engineering and develops the procedures for the required Type and Factory Acceptance Tests;
- Provides engineering support (analyzing system requirements, including managing interfaces, producing study reports, producing conceptual or engineering drawings) for the plan, design and procurement of the electrical components and systems.

- **Additional Responsibilities**

- Collects all required information to submit access request(s) on time and in accordance with internal regulations, as requested;
- Implements the Quality Assurance (QA) & Quality Control (QC) requirements and standards for components and systems, in close relation with the Quality Management (QMD) Division;
- Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics;
- Witnesses Type and Factory Acceptance Tests.

### **Experience & Profile**

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- ***Demonstrated experience and technical competencies in:***

- **G4:** Minimum 5 years' experience in operation, maintenance and troubleshooting in the field of electrical components and systems, within complex and highly regulated environments or projects.
- **G5:** Minimum 7 years' experience in operation, maintenance and troubleshooting in the field of electrical components and systems, within complex and highly regulated environments or projects.
- **Essential competencies and experience** required for success in the role:
  - Electrical and/or Instrumentation & Control (I&C) installation activities: knowledge, capabilities, and practices to perform engineering activities in electrical circuits' components, subsystems, and systems;
  - Low and medium voltage distribution, components and systems design, procurement, installation, and commissioning;
  - Quality management: knowledge of international requirements, regulations, methods, and practices relevant to electrical safety within high and medium voltage environment;
  - 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.
- **Advantageous competencies and experience:**
  - Demonstrated capacity for problem-solving and project management is a plus;
  - Schedule management: developing, maintaining, and controlling a schedule, with the associated risks and opportunities, to ensure timely completion of tasks and overall objectives.

- Quality control: techniques and activities, including monitoring, inspection, and corrective measures, to ensure that components, products, and services comply with all applicable requirements and standards.
- **Education:**
  - **Essential:** Bachelors' degree or equivalent in Electrical distribution domain or other relevant discipline;
  - *The required education degree(s) 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).

*The following items apply to all jobs and job holders for the duration of tenure at ITER Organization:*

- **The CARE Values are a framework of principles that guide our actions and define the culture and spirit of the ITER Project:**

**Collaboration:** We collaborate with commitment and flexibility using the power of teamwork, building partnerships, and working with others to reach shared objectives;

**Accountability:** We are accountable for the whole project - we take responsibility for our specific actions and are transparent in our daily work, holding self (ourselves) and others accountable to meet commitments;

**Respect:** We treat each other with respect and dignity at all times, knowing that all of us belong here. We appreciate the value that our multicultural and diverse community brings to the ITER Project;

**Excellence:** We are driven by excellence; we are agile and innovative while maintaining the highest standards of safety, quality and integrity;

- **ITER Core Technical Competencies:**

1) **Nuclear Safety, Environment, Radioprotection and Pressured Equipment**

2) **Occupational Health, Safety & Security**

3) **Quality Control & 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 perform other duties in support of the project as defined by your line manager, and when relevant upon the request of the matrix manager;
- May be requested to work outside the ITER Organization reference working hours, including nights, weekends and public holidays, due to business needs - this may include on-call, shift work, etc.
- May be requested to be part of any of the project/construction teams and to perform other duties in support of the project;
- For staff expected to perform on-call, shift hours, or other work outside ITER Organization reference working hours, including nights, weekends, and public holidays, **the possession of a driving license valid in France is required. no commuting vehicle will be provided by the ITER Organization.**
- Informs management of any important and urgent issues that cannot be handled by line or matrix management and that may jeopardize the achievement of the Project's objectives;

The ITER Organization (IO) is an Equal Opportunity organization committed to diversity and inclusive in the workplace.