

Job Title: Equipment Qualification Engineer IO1200

Requisition ID **8281** - 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.

The IO is committed to fostering a fair and equitable environment across all areas of the project, including compensation and benefits.

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: 08/03/2026

Department: Engineering Services Department

Division / Program:

Section / Project: Nuclear Safety Engineering Section

Job Grade: P3 (SALARY SIMULATOR)

Language Requirements: Fluent in English (written & spoken)

Contract Duration: Initial Employment Contract up to five years with possibility for extension

*The selection process will be conducted with the objective of filling **the below 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

Are you looking for an exciting opportunity at the heart of an ambitious fusion energy project? Join us as an Equipment Qualification Engineer where your goals will include:

- Coordinating the implementation of processes and technical instructions required to qualify for equipment for functional requirements and environmental conditions, including normal, incidental and accidental conditions.
- Elaborating technical specifications and procedures for nuclear equipment and component qualification (such as Electrical and/or Instrumentation & Control equipment).
- Contributes to, and reviews the drafting, technical control and surveillance of the qualification reports to be part of the Safety Files for the Nuclear Safety Authority.
- Ensuring deliverables are produced according to project schedule and budget, within a quality-assured environment that requires rigor and a systematic way of working.
- Developing, under the leadership of your discipline manager, your skills and experience for the benefit of the Project.

The ESD provides the required skilled engineering resources or services, which are necessary for the successful completion of the ITER Project.

The Nuclear Safety Engineering section supports different IO entities requiring nuclear safety expertise (nuclear safety comprises the study of normal, incidental and accident situations with impact on workers, members of the public and the environment; it comprises qualification of nuclear safety related equipment).

Being a member of the Nuclear Safety Engineering Section, you will have the opportunity to share and develop your expertise with other colleagues working in the same discipline on different ITER units.

Key Duties and Responsibilities

Primary Responsibilities

- Performs a detailed review of nuclear equipment qualification documents (e.g. Identification File, Qualification programme/plan, Test specifications, Test Reports, monitoring files/Qualification Follow-up Documents, Qualification Summary Report, Qualification Preservation Sheets, Reference Files) and prepares technical review notes.
- Uses multi-system analyses to define loads for equipment qualification purposes and verifies that associated requirements are properly met.
- Provides technical advice to the ITER Systems Teams on all matters related to equipment qualification.
- Elaborates and refines qualification technical specifications and procedures for complex qualification conditions.
- Gathers information to monitor and report on the progress of equipment qualification and to continuously ensure that the List of Qualified Equipment is up to date.

Additional Responsibilities

- Participates in controls, audits, or inspections concerning equipment qualification, and document the findings in formal reports.

Please note that job descriptions cannot be exhaustive, and the staff member may be required to undertake other duties, which are broadly in line with the above primary responsibilities.

Experience & Competencies

Essential:

- **Proven experience** in equipment/component qualification (e.g. sensors, I&C and/or electrical components) for complex international projects in highly regulated environment, preferably nuclear fission or fusion industry.
- **Testing and Qualification:** Defining test sequences and supervising the execution of qualification tests in accordance with the specifications of systems, components, piece parts, as well as integrated systems.
- **Solid knowledge** of equipment failure mechanisms and sensitivity of Electrical and I&C equipment to environmental conditions, such as temperature, radiation, humidity, electromagnetic field (EMC).
- **Analysis:** Understand, interpret and justify analyses of complex components, under extreme loading conditions (e.g. electromagnetic, radioactive) in a nuclear field.
- **Collaboration:** Building partnerships and working collaboratively with others to meet shared objectives.
- **Results-Oriented:** Consistently achieving results, even under tough circumstances.
- **Continuous Improvement:** proposing changes to processes and systems to enhance efficiency, quality, and productivity over time.
- **Quality Management Systems (QMS):** apply the applicable procedures related to your field of activity.

Desirable:

- **Nuclear and related standards** (i.e. RCC-E, IEEE, IEC, IAEA, NRC, etc.) concerning equipment qualification (especially for Electrical and I&C equipment).

- **Experience in Fire Qualification:** Previous experience in qualifying equipment to withstand fire and meet fire safety standards.
- **Decision Quality:** Making good and timely decisions that keep the organization moving forward.
- **Organizational Savvy:** maneuvering comfortably through complex policy, process, and people related organizational dynamics.
- **Optimizes Work Processes:** knowing or identifying the most effective and efficient processes to get things done, with a focus on continuous improvement.

Qualifications

Essential:

- Master's degree or equivalent in electronic, automation, nuclear engineering or another relevant discipline.

Desirable:

- Certifications in RCC-E or IEEE standard concerning equipment qualification.
 - *The required education degree(s) may be substituted by extensive professional experience involving similar work responsibilities and/or additional training certificates in relevant domains.*
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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.