

# Job Title: Equipment Qualification Coordinator IO0922

Req ID **1302** - Posted **12/02/2020** - (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:** 29/03/2020

**Domain:** Engineering

**Department:** Central Integration Office

**Section:** Integrated Engineering Analyses

**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**

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As Equipment Qualification Coordinator, you will be responsible for the management of the activities related to the equipment qualification, including definition and implementation of the technical processes, the development of input data, and the control and surveillance of the status of equipment qualification.

## **Background**

The Integrated Engineering Analysis Section (IEA) is a multidisciplinary team of engineers with expertise in structural, seismic, electromagnetic, computational fluid dynamics (CFD) and systems analyses, as well as materials, codes and standards and equipment qualification. Among other tasks, IEA:

- Coordinates and performs multi-system analyses to define loads and verify that project requirements are properly met;
- Performs engineering analyses to support the licensing application, and design verification of SSCs based on project priorities;
- Oversees the verification and validation of safety and technical requirements within the systems.

## **Major Duties/Roles & Responsibilities**

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- Establishes and coordinates the implementation of processes and technical instructions for the qualification of equipment to functional requirements and environmental conditions,

including normal, incidental and accidental conditions, interacting with the Safety Department and Technical Responsible Officers of the equipment;

- Establishes a certification program for non-Protection Important Components;
- Contributes to the flow down of the qualification requirements through the supplier chain;
- Manages the development and maintenance of the Qualification Room-book specifying the environmental conditions for the equipment qualification, interacting with analysis team and Safety Department;
- Reviews and ensures the equipment list to be submitted to the Nuclear Safety Authority is up to date, with relevant qualification plan and reports, in compliance with Safety Department requirements;
- Contributes to, and reviews the drafting, technical control, and the surveillance of the qualification reports to be part of the Safety Files for the Nuclear Safety Authority, in alignment with the Safety Department and Technical Responsible Officers of the equipment;
- Maintains up-to-date status of equipment qualification, anticipates and reports immediately on any risk and issue related to this topic;
- 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

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- Produces high quality deliverables and input relevant for equipment qualification in due time;
- Reports regularly and accurately on the status of equipment qualification;
- Mitigates risks and proposes solutions to solve issues;
- Maintains the equipment list with status of qualification compliant with the project schedule.

## Experience & Profile

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- **Professional Experience:**
  - At least 10 years' experience in the qualification of equipment for complex international projects in highly regulated environment, such as nuclear.
- **Education:**
  - Master degree or equivalent in mechanical, chemical, nuclear engineering 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).
- **Technical Competencies:**
  - Systems engineering and design control: design planning, input, development, change control, verification, validation, and interface control;
  - Engineering, construction and commissioning of nuclear / fusion facilities, specific to nuclear safety and quality standards;
  - Excellent knowledge and capability to implement nuclear standards (or equivalent) related to equipment qualification, IEEE, IEC, IAEA, NRC, RCC-M/MR/MX, etc.;
  - Excellent knowledge of equipment failure mechanisms and sensitivity of material to environmental conditions, such as temperature, radiation, humidity, electromagnetic field;
  - Defining and controlling qualification tests;

- Using DOORS and PLM is considered as an advantage.
- ***Behavioral Competencies:***
  - 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 analyze multiple and diverse sources of information to define problems accurately before moving to solutions;
  - Instill trust: Ability to model high standards of team mindset, trust, excellence, loyalty and integrity.

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***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.