

# Job Title: Safety Analysis Coordinator IO0791

Requisition ID **6909** - Posted - (France, 13067 St Paul Lez Durance Cedex) - **Safety and Security - 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.

ITER Organization (IO) is an Equal Opportunity/Inclusive organization committed to diversity in the workplace, with diversity and Inclusiveness being one of the ITER Values.

As IO attracts and retains people coming from a vast array of different backgrounds and cultures, bias and exclusion cannot be tolerated. IO believes it is our diverse perspectives and backgrounds 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.

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:** 09/04/2023

**Domain:** Director-General

**Department:** Safety & Quality Department

**Division:** Nuclear Safety Division

**Group:** Nuclear Safety Analysis

**Job Family:** Project Support

**Job Role:** Coordinating Officer

**Job Grade:** P4

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

**Contract duration:** Up to 5 years

## **Purpose**

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As the Safety Analysis Coordinator, you will provide support to the Nuclear Safety Analysis Group in all matters related to ITER safety, in particular concerning the coordination of the safety analyses and the implementation of the safety requirements in the design. You will perform and coordinate safety analyses, propose and develop safety strategies and requirements and ensure the verification and validation of the codes used for the safety analysis.

## **Background**

*Major risks for people, facilities and/or the environment can be triggered by internal hazards (fire, explosion, thermo-hydraulics, etc.) or external hazards (earthquakes, road traffic, neighboring industrial facilities, etc.). Within the Safety and Quality Department (SQD), the present role covers the coordination*

of the safety analyses required for nuclear risks to be integrated and propagated to the appropriate lines of defense into design, procurement, construction, assembly, qualification, commissioning and operation phases of ITER nuclear facilities.

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

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- Coordinates the preparation of the nuclear safety analyses performed by the Nuclear Safety Analysis group;
- Develops the processes for the performance, verification and validation of those safety analyses;
- Develops the files in support the verification and validation of the codes used to perform the nuclear safety demonstration;
- Coordinates and participates in the development of models for the safety analyses;
- Performs specific safety analyses regarding postulated initiating events and develops the documentation associated with these nuclear safety analyses, in support of the ITER nuclear safety demonstration;
- Ensures propagation of the nuclear safety requirements arising from the nuclear safety analyses within the project;
- Verifies the compliance of the identified protection important components with their defined nuclear safety requirements;
- Prepares technical responses at the request of the nuclear safety authorities during the examination of the ITER safety files, both written documents and by presentations and discussions with the authorities and their technical advisors;
- Takes editorial responsibility for relevant sections of documentation prepared for submission to the French nuclear safety authorities as part of the ITER licensing process;
- 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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- Proactively executes all functions as described above, in line with the relevant deadlines, cost and schedule;
- Effectively performs nuclear safety analysis activities, ensuring compliance with the French regulations;
- Shows strong commitment to the ITER safety approach and effectively propagates it within the Organization;
- Effectively communicates and collaborates with all IO and DA stakeholders to ensure a smooth execution of the required tasks;
- Develops clear, high quality documentation concerning safety analyses including all relevant nuclear safety requirements;
- Contributes effectively to the acceptance of the ITER safety case by the French Nuclear Safety Authorities.

### **Experience & Profile**

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- **Professional Experience:**
  - Minimum 10 years' experience in performing nuclear safety analysis;
  - Knowledge of validation and verification approach and practice for computer codes for nuclear applications.
- **Education:**
  - Master's degree or equivalent in nuclear safety, 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);
- French language skills (written and spoken) are advantageous.
- **Technical competencies and demonstrated experience in:**
  - Nuclear Safety Principles: In depth knowledge of the principles of nuclear safety, understanding of their use and experience in verifying their application in respect with nuclear authorities requirements;
  - Nuclear Safety Analysis: Practice in nuclear safety analyses regarding postulated initiating events;
  - Requirements definition: Ability to anticipate and to adapt proposed solutions and tasks to the environment and constraints, cascading customized requirements;
  - Risk Identification and Management: Supporting and advising on on-site activities impacted by nuclear safety, in particular for confinement systems, mechanical systems, or instrumentation and control systems;
  - Writing and presentation: write and review technical documents in the domain of expertise, document and transmit knowledge with data, clarity, and precision, in particular to safety analyses performed;
  - Quality Control: Verify compliance of systems and / or products within applicable requirements;
  - Quality Management: knowledge of product and / or management requirements for international quality standards, methods, and practices;
  - Creating and promoting a high level of nuclear safety culture is an advantage.
- **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;
  - Decision Quality: Holds others accountable for making sound decisions that comply with policies and standards.
- **Additional Behavioral Competencies:**
  - List behavioral competencies specifying if they are required or considered as an advantage;
  - Driving vision and purpose: paints a compelling picture of the vision and strategy that motivates others to action.

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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 (Knowledge of these competencies may be acquired through on-board training at basic understanding level for all ITER staff members) :
  - 1) Nuclear Safety, Environment, Radioprotection and Pressured Equipment
  - 2) Occupational Health, Safety & Security
  - 3) Quality Assurance Processes
- 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.
- 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.