

Job Title: Nuclear Engineer, Radiation Protection IO1199

Requisition ID **8086** - Posted - (France, 13067 St Paul Lez Durance Cedex) - **Engineering of Systems - 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: 04/11/2025

Department: Engineering Services Department

Section / Project: Nuclear Safety Engineering Section

Job Grade: P2 (**SALARY SIMULATOR**)

Language Requirements: Fluent in English (written & spoken)

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

Purpose

Are you looking for an exciting opportunity at the heart of an ambitious fusion energy project? Join our Nuclear Safety Engineering Section, within the Engineering Service Department (ESD) as a Nuclear Engineer.

As a **Nuclear Engineer**, your goals will include:

- Defining, propagating, coordinating and overseeing the implementation of radiation protection provisions for the scope of activity as per the regulatory requirements.
- Ensuring that input data used for safety and radiation protection is properly integrated into the design, construction, and operation of ITER site facilities. 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.

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:

- Acts as Nuclear Engineer for radiation protection across a variety of systems/activities/teams.
- Oversees the implementation of nuclear and radiation safety principles across various ITER activities that may expose personnel to ionizing radiation, especially during construction and radiography testing.
- Manages the safety provisions associated with the use of ionizing sources and radiographic equipment on ITER site.
- Develops and provides nuclear safety analyses, including radiation protection analyses and documentation needed to fulfill regulatory requirements (technical prescriptions, radiation protection files,...).
- Performs, or checks the safety calculations needed for specific licensing files related to radiation protection, radioactive releases or radiological consequences.

Additional Responsibilities:

- Monitors the planning, execution and integration of activities in response to the requirements and commitments of the French regulatory bodies (Nuclear Safety Authority and Labor Inspector) related to radiation protection (including radiographic testing during construction activities, ALARA and maintenance)
- Performs surveillance of safety related components and systems, ensuring correct application of the French Nuclear Facility order for the design, manufacturing, construction, installation, commissioning or operation of specific systems.

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 a radiation protection role, preferably within nuclear facilities (design, commissioning, construction, radiography testing, operation)
- **Nuclear and Radiation Safety:** Radiation protection (knowledge of applicable regulations, knowledge or background in commissioning or operations of radiation protection components and systems for nuclear facilities, management of radiographic testing activities).

- **Performing calculations** in the domains of radiation protection, radioactive releases, radiological consequences.
- **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:

- **Building partnerships** and working collaboratively with others to meet shared objectives, preferably in an international environment.
- **Writing & Presentation:** Experience of writing/reviewing technical documents in the domain of expertise, notably documents for the regulator, documenting and transmitting technical knowledge/data with clarity and precision.
- **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 safety, nuclear safety or radiation protection field 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.*

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.