

Job Title: Fire Protection Responsible Officer / Coordinator IO0631 & IO0570

Requisition ID **7142** - 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: 12/11/2023

Department: Science & Integration Department

Division: Central Integration Division

Section: Design Integration Section

Job Family: Engineering

Job Role: Engineer 3/4

Job Grade: P3/P4

Language Requirements: Fluent in English (written & spoken)

Contract Duration: Up to 5 years

Two positions

As a special notice for IO vacancies, particularly valid for job postings with multiple positions, the appointment to a position may be made at a lower grade if the qualifications and professional experience of the selected applicant correspond to that grade; in this case, the duties and responsibilities assigned will be adjusted accordingly.

Purpose

As a Fire Protection Responsible Officer / Coordinator, you will define and implement the strategy of the ITER fire protection system during all ITER phases.

The position as Fire Protection Responsible Officer (IO0631) will focus on the definition of the strategy of the ITER fire protection system, ensure its implementation during all ITER phases and lead the Fire Protection integrated Team (FPiT) activities including associated budget required, whereas the position as Fire Protection Coordinator (IO0570) will focus on the management of the activities to establish and

maintain the ITER fire protection plan and provide expertise and support to all stakeholders for the implementation of fire protection requirements from design up to commissioning and operation.

Background

The Central Integration Office is in charge of ensuring the physical and function integration for the ITER project based on a System Engineering approach. Within this division, the Design Integration Section (DIS) has the responsibility to manage and coordinate activities related to the systems physical integration, physical interfaces management, implementation of Safety requirements and transverse function requirements in the layout. Design Integration Section (DIS) has the responsibility for physical design integration including design integration of the ITER fire protection system.

Key Duties, Scope, and Level of Accountability

- Manages, depending on the position the strategy, the fire protection according to Fire Protection integrated Team (FPiT) action plan in order to fulfil the nuclear safety, the occupation safety principles and investment protection requirements such as:
- Definition and implementation of the Fire protection within all Tokamak Complex buildings in the Technical baseline;
- Definition of the fire sensitive lists and requirement, with their full implementation of fire protection strategy and mitigations into PBS design;
- Performance of functional analyses and integration of systems related to fire protection in the nuclear buildings and auxiliary buildings;
- Resolution of Fire protection integration issues for all IO building.
- Establishes close collaboration with the Safety Department to ensure that the fire protection safety requirements are fully implemented in the design, and in the construction up to commissioning and operation phases;
- Performs conceptual and detailed design of common fire protections, launching external contract if needed with preparation of Manufacturing of Readiness Review and release of Engineering Work Package;
- Evaluates the impact of fire protection strategy on the plant systems and buildings and, acts as fire protection specialist for the ITER project;
- Assesses design of fire barrier solution compatible with system specific requirements;
- Prepares the commissioning technical specifications, plan and procedures for the ITER fire protection system (under IO scope) in accordance with the defined requirements and makes sure that clear demonstration of the defined requirements can be achieved with the proposed commissioning procedures;
- Coordinates (or participates actively with Commissioning Team) the commissioning phases of the ITER fire protection system (under IO scope), and makes sure that clear demonstration of the defined requirements is achieved during commissioning;
- Collaborates with the systems Responsible Officers in implementing the fire protection strategy for the safety protection important components and for investment protection components;
- Participates to the systems gate review meetings, coordinates the review process of fire protection requirements and advises on corrective actions when necessary;
- May be requested to perform other duties in support of the project;
- May be required to work outside the ITER Organization (IO) reference working hours, including nights, week-ends and public holidays.

Specific duties for Fire Protection Responsible Officer (IO0631):

- Defines and updates as needed the strategy of the fire protection plan in order to fulfil the nuclear safety, the occupation safety principles and investment protection requirements;
- Leads the Fire Protection integrated Team (FPiT), including definition of the budget required and follow-up of the dedicated contracts;
- Coordinates actions ensuring establishment of the ITER management of fire events including proper fire detection supervision and emergency response strategy.

Specific duties for Fire Protection Coordinator (IO0570):

- Coordinates the resources for the implementation of activities related to the design integration of fire protection systems;

- Organizes the monitor and reporting of the Fire protection activities, with identification and resolution of the fire protection issues;
- Maintains the fire loads database in all the rooms sensitive from nuclear safety protection and investment protection point of view;
- Coordinates actions ensuring that equipment and materials are appropriately designed and qualified against fire loading conditions;
- Defines and provides the input data for equipment qualification program related to fire protections;
- Performs and reviews fire hazard assessments and fire risk analyses.

Measures of Effectiveness

- Maintains close and bi-directionally communications with the Line management;
- Manages contracts' deliverables to quality and within the defined schedule;
- Establishes high quality technical documentation within defined schedule;
- Ensures the proper implementation of the fire protection strategy and requirements;
- Proposes an effective strategy for implementing the fire protection and fire extinguishing policy;
- Reviews the integration of the fire requirements in system design and proposes corrective actions when necessary;
- Proposes and coordinates the proper resolution of the technical issues to ensure completeness and implementation of fire protection;
- Interfaces with all plant systems responsible officers for implementing the fire protection strategy and for solving any open issue related to Fire Protection;
- Collaborates with the European Domestic Agency (EUDA) for fire protection system/components tests, reviews fire protection system design and test procedures, reviews test reports;
- Collaborates with EUDA in the optimization of the fire protection system, participates to the fire protection system reviews, acts as interface between the fire protection system and the different clients/suppliers to make sure that the overall system (fire protection system, clients and suppliers) is well integrated.

Experience & Profile

- **Professional Experience:**
 - Minimum 10 years' (for P4) 8 years' (for P3) experience working as engineer, responsible for coordinating the implementation of fire protection policy for design, commissioning and operation of fire protection requirements for various systems within complex international environments or projects.
- **Education:**
 - Masters' degree or equivalent in the field of mechanical engineering or other related 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 and demonstrated experience in the following would be an advantage:**
 - Specialized Domains of Work & Technical Expertise: Fire hazards' assessments and fire risk analyses to comply with nuclear safety and regulatory requirements;
 - The use and application of both international and French fire protection regulation, QA/QC codes & standards applicable in nuclear and experimental facilities;
 - Anticipating complex and challenging technical issues or problems, drawing on experience and expertise;
 - Formulating a technical implementation strategy and presenting it to managers and stakeholders;
 - Identifying, resolving and maintaining technical and functional interfaces;
 - Planning verification of compliance of the products with all applicable requirements and formulating and executing recovery plans;
 - Design, procurement, and construction project management;
 - The use of fire modelling software, such as CDI, Magic, Sylvia or other;
- **Other specialized domain of work required for Fire Protection Responsible Officer (IO0631):**
 - Project Management (managing a specific program or initiative within the constraints of human and financial resources) with preparing tenders, awarding and executing contracts,

managing stakeholders and external parties in order to ensure implementation according to contractual requirements.

- **Other specialized domain of work required for Fire Protection Coordinator (IO0570):**
 - Tasks coordination: resources management, activities prioritization and allocation management.
 - **IO Core Behavioral Competencies:**
 - Collaborate: Ability to facilitate dialogue and communicate influentially 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/define problems accurately before moving to proposals;
 - Instill trust: Ability to apply 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 (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 or Department 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.