

## Job Title: Data Management Section Leader IO0317

Requisition ID **7143** - Posted - (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.

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:** Data Management Section

**Job Family:** Line Management and Group Leaders

**Job Role:** Section Leader

**Job Grade:** P5

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

**Contract Duration:** Up to 5 years

### **Purpose**

---

As a Data Management Section Leader, you will be responsible for leading the development, implementation and management of Information Technology (IT) activities related to integrated engineering data management.

You will manage a team of IT software development experts and off-site contractors configuring and customizing commercial solutions and developing in-house applications like the ITER Document Management System (IDM) and related engineering applications.

### **Background**

*At ITER, engineering data are typically distributed among various commercial and in-house software/database systems. A common platform should be developed to connect all these data silos to ensure data consistency as needed for supporting system engineering, configuration management, design integration and construction/commissioning/operation activities for the ITER project.*

## Key Duties, Scope, and Level of Accountability

---

- Provides effective leadership for the Section ensuring team members are motivated and constantly developing their skills and experience;
- Prepares work plans, ensures a balanced workload distribution, monitors work performance and assesses staff development needs;
- Develops the strategy to consolidate ITER engineering software packages and databases towards a system offering a single source of truth for the various stages of the project;
- Develops robust and efficient architectures for content management via web applications using a selected framework (currently ASP.NET framework, MSSQL, Angular);
- Manages the implementation of interfaces between various software packages used at ITER using standard technologies;
- Investigates the potential use of AI for the project needs;
- Builds and maintains relationship with Domestic Agencies (DAs) and internal and external stakeholders;
- Provides leadership in safety and security;
- 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.

## Measure of Effectiveness

---

- Demonstrates efficient leadership in supervising staff of the section and developing their competencies and ensuring commitment of the team to achieve the IO goals;
- Takes proactive actions to anticipate issues;
- Responsible for Section deliverables meeting safety standards, quality schedule and cost requirements;
- Provides expert guidance to develop the relevant strategy to be developed and implemented as necessary for the IO within the defined schedule;
- Ensures that the developed IT software/database systems are continuously available with quick response times;
- Develops a consistent data management system for the core engineering data for the full lifecycle of ITER;
- Collaborates effectively and professionally with all stakeholders and maintains excellent relations with interfacing teams;
- Successfully generates and maintains trustworthy, up-to-date information related to the machine's technical scope.

## Experience & Profile

---

- **Professional Experience:**
  - Minimum 10 years' experience in leading an IT group and managing group activities within complex international environments or projects.
- **Education:**
  - Master degree or equivalent in IT, Engineering field 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 and demonstrated experience in:**
  - Strategy and Architecture: Deep knowledge of Software Development Project and Processes Management, especially software interfaces;
  - Development and Implementation: Experience in developing an ITER-like system (ASP.NET in VB/C# and Angular) or AI technologies is an advantage;
  - Change and Transformation: Demonstrated ability to lead a software development team and to interact with experts in many scientific disciplines;
  - Information systems: Excellent and broad computer and IT skills are mandatory such as:
    - .NET (C#, VB), MSSQL, Angular, JScript;
    - Excellent analytical and problem solving skills;

- Understanding of complex information and requirements;
  - Good prioritization skills and be flexible enough to adapt plans.
  - ***IO Core 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/define problems accurately before moving to proposals;
    - Instill trust: Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.
- 

***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.

# 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.
- 

***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.

## Job Title: Environmental Protection Engineer IO0072

Requisition ID **7148** - 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:** Safety & Quality Department

**Division:** Nuclear Safety Division

**Group:** Radiation Safety & Environment

**Job Family:** Project Support

**Job Role:** Radiation Safety & Environment Group

**Job Grade:** P3

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

**Contract Duration:** Up to 5 years

### **Purpose**

---

As ITER's Environmental Protection (EP) Engineer, you will be responsible for monitoring and updating environmental regulations to be applied by ITER. You will provide environment analysis, and advise ITER stakeholders to ensure that EP requirements are considered in their activities. You will contribute to the development of the management of quality procedures, in addition to performing audit and inspections as required.

### **Background**

*The Radiation Safety & Environment (RSE) Group is part of the IO Nuclear Safety Division within the Safety & Quality Department. This group is in charge of the radiation protection and safety of the workers and the public as well as coordinating the ITER Environment Protection activities.*

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

---



- Observes, identifies, and complies with the legal and regulatory requirements related to the environmental protection applicable to the ITER project (ASN, DREAL);
- Coordinates and performs the EP activities for environmental important components (PIC/EIC) based on the French Nuclear Safety Authorities requirements, which are including: Identification and status assessment of PIC/EIC, development of PIC/EIC justification reports with stakeholders, review of PIC/EIC documents, and surveillance on this PIA activity;
- Supervises the implementation of environmental regulation on site through environmental inspections and audits that will be formalized with surveillance plans and reports;
- Contributes to development of the Management Quality Process on EP by proposing the strategy and relevant documents (e.g. EP procedures, instructions, reports);
- Propagates the EP culture within the IO, Domestic Agencies (DAs) and their contractors working on ITER site by effective means such as EP campaigns, trainings, instructions, or participating upon request in EP coordination meetings;
- Participates as required to design, construction and commissioning reviews by providing guidance on EP considerations to other stakeholders from IO departments;
- Supports the development of an environmental management system following ISO 14001 and its implementation for continuous improvement;
- Supports the Nuclear Safety division regarding all documents concerning Environment Protection;
- 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.

### Measure of Effectiveness

---

- Provides effective support and accurate advice for activities related to EP to all stakeholders;
- Executes the required tasks in concertation in a timely manner, including on-schedule production, review and approval of EP documentation;
- Effectively communicates and collaborates with all IO and DA stakeholders to ensure smooth execution of the required tasks.

### Experience & Profile

---

- **Professional Experience:**
  - Minimum 8 years' experience in Environmental Protection management within a nuclear or chemical worksite environment.
- **Education:**
  - Master's degree or equivalent in Environmental Engineering, Science or other Engineering;
  - 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 experienced in:**
  - Relevant regulations and requirements, and of national (French), preferably international Environment Protection standards and recommendations;
  - Process documents, performing audits and writing reports;
  - EP in nuclear or chemical worksite would be an asset.
  - Supporting and advising other stakeholders on chemical activities on site including assembly, maintenance, decontamination or decommissioning activities;
  - Working with the ASN, DREAL or DIRECCTE would be advantageous;
  - Creating and promoting an Environmental Protection culture.
- **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 and define problems accurately before moving to proposals and solutions.

- Instill trust: Ability to apply and model high standards of team mindset, trust, excellence, loyalty and integrity.
- 

***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.

## Job Title: Quality Engineer IO0752

Requisition ID **7149** - 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:** Safety & Quality Department

**Division:** Quality Management Division

**Section:** Not applicable

**Group:** Quality Assurance

**Job Family:** Project Support

**Job Role:** Functional Officer – 2

**Job Grade:** G6

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

**Contract Duration:** Up to 5 years

### **Purpose**

As a Quality Engineer, you will coordinate or witness that all Critical Quality Activities are performed correctly and verifiably with the required tracking to meet quality and safety defined requirements.

You will be responsible for performing quality monitoring (documentation review, Non-Conformance Report management quality assessment), including direct product inspections as may be requested, in order to check compliance with applicable Quality Requirements.

In particular, you will be requested to support assigned technical teams to ensure the implementation of quality assurance requirements and quality supervision tasks.

### **Background**

Considering complexity of the Tokamak and cost of repair or rework, and the potential impact on future operational performance means that appropriately strict quality assurance (QA) and quality supervision

shall be applied, depending on the required quality level.

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

---

- Monitors and reviews procurement documentation for the correct application of specified requirements and proper implementation of quality procedures;
- Advises on quality related issues including materials, design, manufacturing, construction;
- Reviews quality plans, non-conformance reports, inspection plans, final quality documentation, subcontractor documentation and other quality related documentation,
- Participates in tendering phases to ensure that quality requirements are met (evaluates the tendering offers from quality point of view, ensures quality evaluation of the suppliers by conducting audits and QS activities);
- Monitors the execution of Management and Quality Program procedures / processes and compliance with applicable requirements;
- Performs quality checks during qualification, manufacturing and testing activities, taking into account IO requirements, French regulation requirements (PED, ESPN);
- Verifies that the products conforms to agreed requirements according to applicable codes, standards and purchase arrangements;
- Supports Operational teams on Quality issues and discussion;
- Identifies potential non-conformance and identify quality risks;
- Provides support in NCR treatment follow up and monitoring of corrective and remedial actions ( e.g. repairs works).

### **Measure of Effectiveness**

---

- Contributes efficiently to the quality activities and quality surveillance activities for ITER systems and/or components in a timely manner and within defined costs;
- Ensures specifications and associated documentation are consistent, clear and correct.
- Monitors the suppliers and contractors activities associated to assigned area and closes efficiently Non-Conformity Reports (NCRs) demonstrating the effectiveness of corrective actions;
- Ensures effective review of procurement quality documentation, quality plans, inspection and Test Plans and solution of Non-Conformity Reports in a timely manner;
- Collaborates and communicates effectively and professionally with all stakeholders and maintains excellent relations with interfacing teams;
- Ensures continuous involvement and support for improvement of quality management system (procedures preparation/revision, process approach application, KPIs measurements and reporting etc.);
- Ensures continuous collaboration with Domestic Agencies (DAs) on all quality aspects (quality assurance topics, quality supervision and gates management);

### **Experience & Profile**

---

- **Professional Experience:**
  - Minimum 9 years' experience in quality assurance, quality inspection/supervision related to field inspections and tests on mechanical and instrumentation within complex international environments or projects.
- **Education:**
  - Bachelor's degree in Electrical / Mechanical engineering field 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 and demonstrated experience in:**
  - Quality audits: perform internal quality audits on IO processes and external quality audits to IO suppliers and contractors., including ISO 9001 quality system audits;
  - Quality data analysis by using statistical method and suggestions for quality improvement;
  - Quality supervision and independent quality assessment: verify compliance of all applicable quality requirements and regulations;

- Problem Solving: Identifying problems in a comprehensive and fact-based manner (who, what, when, ...), and proposing practical solutions in a consistent way to reach project objectives;
- Reporting, follow up and management of actions: summarize and communicate (written and verbal) technical reports, recording, checking and ensuring implementation of actions based on evidence.
- Proven experience in the construction phase, fabrication and installation supervision of large and complex systems for nuclear plants or oil and gas sectors.
- Managing lessons learned and promoting a strong quality and safety culture;
- Knowledge and expertise for management of counterfeit, fraudulent and suspect items is considered as advantageous.
- **IO Core 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/define problems accurately before moving to proposals;
  - Instill trust: Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.

***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.

# Job Title: Remote Handling Engineer IO0805&IO0556

Requisition ID **7151** - Posted - (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.

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:** 19/11/2023

**Department:** Engineering Design Department

**Division:** Hot Cell Facility Division

**Section:** Remote Handling Section

**Job Family:** Engineering

**Job Role:** Engineer – 3

**Job Grade:** P3

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

**Contract Duration:** Up to 5 years

## Two vacancies

### Purpose

As a Remote Handling Engineer, you will support Remote Handling (RH) activities for systems(s) design, Research & Development (R&D), procurement specification and procurement project management. Throughout your activities, you will maintain effective configuration control and safety requirements on associated systems.

### Background

The role of the ITER Remote Handling Section is to carry out the design, development, integration, commissioning and future operation of remote handling / robotic equipment for the maintenance and inspection of ITER systems, structures and components during nuclear operation.

The role described here relates to the function of Remote Handling Engineer who will be part of an integrated, multi-disciplinary team established to fulfil the global role of the Section.

## Key Duties, Scope, and Level of Accountability

---

- Develops, reviews and monitors the Remote Handling system(s) design, R&D, procurement and integration within the global ITER facility;
- Provides support on transitioning to an RH operations phase with elaboration of necessary trials and logistics, as well as contributing to the development of on-site RH operation capabilities,
- Examines the design of ITER machine components to assess their suitability to meet the requirements for remote maintenance;
- Suggests and implements improvements to the ITER machine components and RH tools/systems design to achieve compatible interfaces between components and RH in close collaboration with system / component designers;
- Develops detailed, step-by-step definitions of RH maintenance processes in keeping with ITER component and RH system baseline designs;
- Develops and maintains the technical specifications for R&D contracts and procurements related to RH topics;
- Enforces and maintains effective configuration control on RH systems;
- Effectively interfaces and collaborates with ITER domestic agencies, laboratories and industries involved in R&D and/or procurement for RH systems;
- 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.

## Measure of Effectiveness

---

- Effectively communicates with the designers of ITER machine components to optimize the design and performance of both components and remote maintenance equipment;
- Controls, monitors and respects the cost and schedule for the execution of the RH R&D and procurement activities;
- Proposes efficient technical solutions of maintenance, operation and recovery of RH systems;
- Efficiently develops and maintains technical interfaces with DAs, laboratories and industry to ensure that the design activities and procurement processes are compliant with quality, schedule and cost requirements.

## Experience & Profile

---

- **Professional Experience:**
  - Minimum 8 years' experience in technical integration/coordination during the construction and/or operation of large (science or industry) projects;
- **Education:**
  - Master degree or equivalent in an Engineering field 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 and demonstrated experience in:**
  - Design, analysis, integration and/or operation of remote operated / robotic systems for maintenance of fusion and/or nuclear devices;
  - Preparing and monitoring design, research and/or manufacturing contracts in an international environment;
  - Procurement management of large and complex systems, including writing technical specifications;
  - CAD production: Ability to develop 3D CAD models and 2D drawings using established proprietary software packages is required. A working knowledge of CATIA V5 and/or ENOVIA software is an advantage;
  - Use of Virtual Reality modelling tools would be an advantage;
  - Working within complex international environments would be an advantage.
- **IO Core Behavioral Competencies:**

- Collaborate: Ability to facilitate dialogue with a wide variety of contributors and stakeholders in an open and transparent manner;
  - 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, honesty and integrity.
- 

***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.