Job Title: Remote Handling Engineer IO0688 & IO1068

Requisition ID **5600** - 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.

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: 16/01/2022
Domain: Engineering
Department: Engineering Design
Division: Remote Handling & Rad-waste Management
Section: Remote Handling
Job Family: Engineering
Job Role: Engineer – 2
Job Grade: P2
Language requirements: Fluent in English (written & spoken)
Contract duration: Up to 5 years

Purpose

TWO OPENINGS
In this role, you will support the Remote Handling Section Leader in matters related to Remote Handling (RH) system(s) design, integration, Research & Development (R&D), installation and commissioning. You will work transversally within the ITER Project to ensure that the ITER machine and plant components meet the necessary requirements for effective and efficient remote maintenance.

Background
The role of the ITER Remote Handling Section is to carry out the design, development, integration, commissioning and eventual 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

- Plans, executes and coordinates Remote Handling system(s) design, integration, R&D, installation and commissioning activities within the global ITER facility;

- Enforces and maintains effective configuration control associated with the design and development of ITER Remote Handling systems;
- Ensures that the ITER machine and plant components meet the necessary requirements for effective and efficient remote maintenance;
- Suggests and implements modifications to the ITER machine components and/or to the remote handling equipment to achieve successful remote maintainability;
- Develops technical specifications for design and R&D activities executed by contractors;
- Provides technical follow-up and project / contractual management for technical activities executed by contractors;
- Defines installation, testing and commissioning processes required for ITER Remote Handling systems.
- Develops and implements effective solutions for maintenance, repair, rescue and recovery of Remote Handling equipment;
- Implements the technical control of the Protection Important Activities, as well as their propagation through the entire supply chain;
- 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.

Note: 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.

Measure of Effectiveness

- Effectively communicates with the designers of ITER machine components to optimize both component and remote maintenance equipment design and performance;
- Efficiently develops and maintains technical interactions with Domestic Agencies, Research Institutes and Industry to ensure Remote Handling design and development activities are compliant with quality, schedule and cost requirements;
- Performs activities related to Remote Handling system(s) design, R&D and integration in line with safety and quality standards;
- Controls, monitors and respects the cost and schedule for the execution of the Remote Handling baseline activities in accordance with ITER Project objectives.

Experience & Profile

- ***Professional Experience:***
  - Minimum 5 years' experience in nuclear engineering, mechanical engineering, process engineering, radiation protection, remote handling and/or management of radwaste in the field of nuclear installations, within complex international environments or projects.
- ***Education:***
  - Master's degree or equivalent in a mechanical engineering, 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 and demonstrated experience in:***
  - Remote Handling: Development of remotely operated / robotic systems for maintenance of fusion and/or other nuclear devices is required;
  - Executing complex/multidisciplinary projects is required;
  - Design: Ability to develop technical designs based on project requirements is required;

- Systems engineering and design control: Ability to develop design input, execute interface management, carry out design verification / validation and implement change control is required;
- 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;
- Engineering Analysis: Ability to carry out engineering analysis and calculations in support of design is required. Complementary abilities to utilize engineering analysis software tools (such as Finite Element Analysis) are an advantage;
- Implementation and optimization of remote maintenance systems through testing, commissioning and/or direct usage is an advantage;
- Installation, integration and/or commissioning of complex engineering plant systems 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.

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.