Job Title: Nuclear Project Engineer IO0829

Req ID **1808** - Posted **02/07/2020** - (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: 16/08/2020
Domain: Engineering
Department: Engineering Design
Division: Remote Handling & Rad-waste Management
Section: Hot Cell & Radwaste
Job Family: Project Engineering
Job Role: Coordinating Engineer
Job Grade: P4
Language requirements: Fluent in English (written & spoken)
Contract duration: Up to 5 years

Purpose

As a Nuclear Project Engineer, you will play a pivotal role in leading the design, schedule, cost optimization and procurement of the ITER Hot Cell Remote Handling and Radwaste process.

Background

The role of the Remote Handling and Radwaste Management Section is to carry out the design, procurement, assembly and commissioning of the systems located in the Hot Cell Complex (HCC), which is devoted to the maintenance of the Tokamak Machine. The key functions are the remote maintenance of the In Vessel Components, the maintenance of the Tokamak Remote Handling equipment and the Radwaste treatment.

Major Duties/Roles & Responsiblities

- Leads the engineering and procurement contracts of the Hot Cell Remote Handling and Radwaste process by establishing the technical specifications, managing the bidding processes and following up the contract, in close collaboration with the Procurement Department;
- Leads the schedule of the design, procurement and commissioning, taking into account the budget constraints, the safety requirements, regulations and all administrative procedures for radioactive waste management;
- Leads the cost optimization of the ITER Hot Cell Remote Handling and Radwaste process, delaying as much as possible the investment cost, with an appropriate balance between investment cost and

operational cost;
- Leads benchmarking, cost benefit analyses and market surveys, aiming to use external services when it is feasible and cost effective;
- Leads the “design to cost” or value engineering approach during the different stages of the design;
- Manages the propagation of transverse functional requirements from overall nuclear facility level to the system level;
- Ensures overall consistency of System Requirements and Interfaces, paying particular attention to interfaces between the process and the Tokamak users, and between the process and the building;
- Oversees design activities for the Hot Cell Remote Handling and the Radwaste process;
- Oversees the ITER HCC assembly, installation, commissioning and operation;
- Communicates with the French authorities and French Disposal Facilities when necessary;
- Communicates and collaborates with the ITER Safety Department to facilitate the licensing process and provides technical support for the definition and update of safety interfaces;
- Provides the Section’s technical document management and participates in preparing or updating its baseline documentation;
- Enhances fruitful and trustful collaboration within the HCC Project Team, and 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

- Completes the design activities and procurement in a timely manner and within the defined cost;
- Enhances the system performance or reduce the system costs while keeping the technical and safety requirements;
- Provides efficient and timely support to the Remote Handling and Radioactive Materials Division integration activities.
- Strives to achieve value engineering and cost optimization for the ITER Organization;
- Ensures that all activities related to contract management stay within the allocated budget and timescale;
- Collaborates well and professionally with all internal and external stakeholders and in particular enhances fruitful and trustful collaboration within the HCC Project Team.

Experience & Profile

- ***Professional Experience:***
  - At least 10 years’ work experience as a Mechanical Engineer in the field of nuclear engineering or radioactive waste management including at least 5 of these working on contract or project management.
- ***Education:***
  - Master’s Degree in a nuclear engineering, mechanical 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:***
  - Leading mechanical engineering design activities on complex nuclear projects;
  - Leading cost optimization efforts;
  - Managing procurement processes, including managing biddings and following up contracts, for complex nuclear projects,
  - Implementation of Nuclear safety regulations and monitor their proper implementation;
  - System engineering, interface management and project management;

- Cost optimization, “design to cost” or value engineering would be an advantage,
- Collaborative procurement scheme would be an advantage;
- Industrial market and suppliers would be an advantage;
- Tritium and Beryllium aspects would be 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, **r**adioprotection 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 lline management and that may jeopardize the achievement of the Project’s objectives.