Job Title: Group Leader (Vacuum Vessel Pressure Suppression System) IO1018

Requisition ID **3642** - Posted **12/02/2021** - (France, 13067 St Paul Lez Durance Cedex) - **Construction and Installation** - **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: 26/03/2021
Domain: Construction
Department: Plant Construction
Division: Mechanical Implementation
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 Group Leader of the Vacuum Vessel Pressure Suppression System (VVPSS) Group, you will perform life cycle planning, resource, activity and contract management for the VVPSS and its sub-system Hydrogen Mitigation System (HMS).
You will supervise all the technical, engineering, qualification, process and safety activities within the VVPSS team and ensure operability of the VVPSS and HMS, based on design development, as well as qualifications (i.e. design, testing, installation, quality assurance, quality control, change request management, risk management etc.).
Additionally, you will support the line management in developing the project planning, respecting the project requirements, baseline schedule and cost.

Background

The VVPSS is a Hard Core safety system that protects the Vacuum Vessel of the ITER Tokamak from overpressure and maintains dynamic confinement of radiation in the event of a significant leak from the Vacuum Vessel. VVPSS & HMS will cover the following aspects:

- Provides a steam condensation capacity for loss of coolant accidents;
- Maintains a pressure cascade into the VV in the event of loss of vacuum accidents;

- Protects the Detritiation System from hydrogen explosion;
- Provides a barrier against the release of tritium, ACPs and beryllium into the environment.

Major Duties/Roles & Responsibilities

- Monitors, coordinates and provides guidance for the activities managed by the VVPSS Group according to the baseline schedule;
- Proposes resourcing plans for the activities of the group and contributes to performance management of staff;
- Performs life cycle planning of the VVPSS and HMS;
- Ensures that the process analysis, qualification, mechanical design and analysis, interfaces, procurements, engineering work packages and construction, as well as safety files are prepared as per the baseline schedule;
- Ensures that the qualification programs are well established in order to fulfil the design development on time;
- Defends the design basis in the final design review and ensures its final approval as appropriate;
- Develops and/or reviews documents related to the aforementioned activities and maintains records;
- Collaborates with Safety Division and Quality teams to prepare requested safety files for the regulators;
- Manages project change requests (PCR) (both ongoing or foreseen), monitors their implementation and resolves them as required;
- Manages the procurement and contract management of the VVPSS and HMS, in close collaboration with the Procurement & Contract Division at ITER;
- Participates in the vendor selections and awarding of contracts for the components/equipment;
- Ensures that the vendors produce high quality documentation according to ITER's requirements;
- Ensures that all the documents are reviewed and approved on time;
- 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

- Develops and implements an efficient and effective life cycle planning for VVPSS and HMS;
- Monitors the budget allocated to the group, ensuring maximum savings and value for the ITER Organization;
- Ensures full completion of the qualification process, in addition to ensuring the mechanical design development is finalized and inclusive of all analysis and completed documentation;
- Develops the Engineering Work Packages as required for construction in a timely manner;
- Anticipates or resolves issues promptly to minimize disruption to the schedule;
- Ensures that the procurement/contract management process is efficiently completed and that materials are available on time for construction;
- Ensures proper operability of the VVPSS and HMS and that it is in line with safety and quality standards and requirements;
- Provides documents and reports to a high quality and standard, that are customized to the audience and are in line with the relevant deadlines;
- Maintains effective communication and excellent relations with interfacing teams within ITER and with external contractors.

Experience & Profile

- ***Professional Experience:***
  - At least 10 years' of engineering experience to deliver system(s) and manage its lifecycle in the field of nuclear power plants, other nuclear industry, oil & gas, pharmaceutical or chemical industry.
- ***Education:***
  - Master's degree or equivalent in the field of Nuclear Engineering (process or mechanical), Chemical 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:***
  - **Specialized domains of work and technical expertise (nuclear engineering):**
    - Complex systems engineering management for its full cycle within nuclear or highly regulated/hazardous environment;
    - Safety and quality requirements and codes and standards performing Quality Assurance and Quality Control actions.
- **Project Management within an engineering context, including procurement and contracts (planning, measuring progress of project work, managing risks/costs and reporting on progress):**
    - International procurement and tendering for engineering contracts, including safety, quality, scope, schedule and cost is required;
    - Technical leadership within a large complex project;
    - Coordinating and supervising of a team's activities, in addition to coaching and performance management of staff;
    - Demonstrated ability to deliver quality results within tight timescales.
- **Design (create technical designs based on project requirements):**
    - System design development, inclusive of process and mechanical design as well as analysis in a high quality or high hazard industry;
    - Test facility and equipment required for qualification will be added advantage;
    - Aptitude to work with multi-CAD system (AVEVA E3D / AVEVA DESIGN /CATIA / ENNOVIA).
- **Problem Solving (assess problems, identify root causes and reach practical solutions in a consistent way to reach project objectives).**
- ***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.