Job Title: Manufacturing Engineer IO0537

Requisition ID **6962** - Posted - (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.

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: 05/05/2023
Domain: Construction Domain
Department: Machine Construction Department
Division: Sector Modules Delivery & Ass. Division
Section: Vacuum Vessel Section
Group: Vacuum Vessel Procurement
Job Family: Engineering
Job Role: Coordinating Engineer
Job Grade: P4
Language requirements: Fluent in English (written & spoken)
Contract duration: Up to 5 years

Purpose

In this role, you will coordinate Vacuum Vessel (VV) manufacturing and assembly activities. This includes the supervision of technical activities related to the procurement of the VV Sectors and Ports, with an emphasis on code compliance and reporting specific to the design and construction of liquid metal cooled reactors. Additionally, you will implement requirements related to the French Regulations for Pressure and Nuclear Pressure Equipment.

Background

The Vacuum Vessel Procurement Group is managing the procurements of the VV components by the Domestic Agencies (DAs) and their assembly at the ITER site according to engineering and scientific

specifications with respect to quality and safety standards (such as RCC-MR) allowing to achieve the ITER Tokamak Machine Construction.

Key Duties, Scope, and Level of Accountability

- Coordinates, monitors, and follows-up technical specifications of Procurement Arrangements (PA) signed with the DAs for the fabrication and final delivery of the VV Sectors, Ports, and other components;
- Coordinates Non Conformance Reports (NCRs) and Deviation Requests (DRs) for VV equipment, Procurement Arrangements (PAs), and assembly contract including support for the elaboration of remedial, corrective and preventive actions, supervision of timely implementation, transverse integration of the treatment of NCRs and DRs, and support for justification to French Regulator (ASN) & Agreed Notified Body (ANB) of NCRs and DRs treatment;
- Coordinates the review of technical documents amongst the PAs through the preparation of document check-lists for material and any procedures submitted by the Contractors/Suppliers: welding, Non-Destructive Testing (NDT), forming, pressure test and leak testing; emphasis will be on compliance with RCC-MR code and technical specifications;
- Coordinates and controls the preparation of End of Manufacturing Reports (EMRs);
- Supports the Technical Responsible Officers (TRO) / Technical Coordinators (TC) of the different PAs for the elaboration and the follow-up of inspection programs;
- Performs routing monitoring activities, such as day-by-day interactions with the DAs and their suppliers, attends regular progress meetings, participates in routine and unscheduled inspections at the supplier's premises, and witnesses intermediate and final acceptance tests;
- Develops and maintains a quality system to meet the requirements of the Vacuum Vessel as Nuclear Pressure Equipment, EU Directive Conformity (2014/68/UE) regarding a Module G & Module H1;
- Implements all requirements dictated by the Agreed Notified Body (ANB) and related to the French Regulations for Pressure and Nuclear Pressure Equipment;
- Develops and provides safety analyses when required to fulfill the French regulator demands (technical prescription…);
- Liaises with Safety Responsible Officer and Quality Responsible Officer for the implementation of Safety and QA requirements on the VV components;
- May be required to work outside ITER Organization reference working hours, including nights, weekends and public holidays.

Measures of Effectiveness

- Contributes to procurement activities of VV systems and/or components meeting deadlines and defined costs;
- Manages the treatment and subsequent actions of NCRs and DRs affecting quality and schedule;
- Generates, reviews, and maintains coherent, comprehensive, and understandable documentation;
- Ensures quality and code compliance is integrated in all relevant activities;
- Maintains effective communications within the ITER Organization, across stakeholders, and with partners' organizations.

Experience & Profile

- ***Professional Experience:***
  - Minimum 10 years' experience in procurement and/or manufacturing in the field of nuclear pressure equipment and/or pressure equipment within complex international environments or projects.
- ***Education:***
  - Master degree or equivalent in mechanical engineering or nuclear safety 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);
  - Fluent in French (written and spoken).
- ***Technical competencies and demonstrated experience in:***
  - Procurement and manufacturing supervision, or conformity assessment / in-service inspection, of components for Nuclear Pressure Equipment and/or Pressure Equipment;
  - Application and compliance of codes for nuclear pressure equipment, such as RCC-MR/RCC-M, or ASME;
  - Oversight, coordination of treatment, and actions of NCRs for nuclear components,
  - Problem solving: assess problems, identify root causes, and reach practical solutions in a consistent way to reach project objectives;
  - Build on past experience and identify lessons learned in order to develop / implement improvement and optimization actions.
  - Writing and presentation: write and review contractual and technical documents in the domain of expertise, document and transmit knowledge with data, clarity, and precision;
  - Development and certification by an Agreed Notified Body (ANB) for nuclear pressure equipment;
  - Industrial experience in fabrication (procurement of material, forging, forming and welding) of stainless steel structures;
  - Proficiency in the use of CATIA, proficiency in the use of CAD model databases;
  - Welding and / or non-destructive examination experience are considered advantageous.
- ***Behavioral Competencies:***
  - Directs Work: Coordinate and integrate the work of others to avoid duplication of effort. Delegate responsibility and convey clear expectations to others.
  - Decision Quality: Hold others accountable for making sound decisions that comply with policies and standards.
  - 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, 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.
- 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.