Job Title: Toroidal Field Coil Section Leader IO0252

Requisition ID **4260** - 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.

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: 15/08/2021
Domain: Construction
Department: Machine Construction
Division: Sector Modules Delivery & Assembly
Section: TF Coil
Job Family: Line Management
Job Role: Section Leader
Job Grade: P5
Language requirements: Fluent in English (written & spoken)
Contract duration: Up to 5 years

Purpose

As the Toroidal Field Coil (TFC) Section Leader, under the supervision of the Head of the Division of the Sector Modules Delivery and Assembly you will report to, you will lead the component delivery and assembly of TFC & Thermal Shields (TS), for the preparation and management of procurement, and the surveillance activities, ensuring safety, quality, schedule, cost and human resources management.

Background:
The Sector Modules Delivery & Assembly Division is responsible for delivery and assembly of all components comprising the tokamak's sector modules, as well as final tokamak assembly in pit. As part of the Division, the Toroidal Field Coil Section is responsible for the procurement, and preparation for assembly of the TFC and TS that are major parts of sector module sub-assembly. The section is responsible for the final assembly of the TFC and TS, and supports other construction teams within the division in all assembly activities involving the TFC.

Major Duties/Roles & Responsibilities

- Manages the TFC & TS assembly, integrating the assembly and contracting strategies, tendering and management of the assembly contracts and surveillance of the assembly works, in collaboration with Procurement and Contracts Division;
- Manages quality, schedule, and budgets of TFC and TS in compliance with quality and safety standards and in respect with ITER Organization (IO) requirements;
- Provides effective leadership to the Section ensuring team members are motivated and constantly developing their competencies;
- Contributes to the development of the staffing and resourcing plan for the section;

- Prepares and supervises integrated commissioning of installed systems and components;
- Is responsible for providing engineering work packages to specify assembly contracts and timely hand-over of such packages to the Construction-Management-as-Agent Contract (CMA);
- Manages and monitors Procurement Arrangements and contracts for the supply of TS and TFC of the ITER machine;
- Follows the procurement schedule, identifies potential delays and implements corrective actions;
- Ensures the preparation of the Assembly Plan to enable completion of the assembly activities, driving process improvement and cost optimization;
- Supports effective risk/opportunities identification and management, identifying and implementing specific development tasks and/or feasibility studies which may be needed;
- Provides leadership in safety and maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics;
- Builds and maintains relationship with internal and external stakeholders;
- Communicates and collaborates with the QA and Safety responsible officers to ensure propagation and compliance with ITER QA program and safety requirements;
- Implements the technical control of the Protection Important Activities, as well as their propagation to 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, weekends and public holidays.

Special notice: May be requested to work on beryllium-containing components. In this case, will be required to follow the established ITER Beryllium Management Program for working safely with Beryllium. Full training and support will be provided by the ITER Organization.

Measures of Effectiveness

- Efficiently manages human resources of the section;
- Responsible for Section deliverables that meet safety standards, quality schedule and cost requirements;
- Ensures on schedule procurement of the TFC TF structures, and thermal shields;
- Reviews and approves the Assembly Plan and Procedures for TFC & TS;
- Ensures contracts' delivery within the defined quality, cost and schedule, and an efficient surveillance of assembly activities;
- Provides high quality engineering work packages to the CMA;
- Maintains effective communications within the ITER Organization, and with other interfacing stakeholders;
- Approves, develops, maintains and records accurate, detailed, and comprehensive documentation related to the activities of the Section.

Experience & Profile

- ***Professional Experience:***
  - At least 10 years' experience in managing the assembly of large systems or components for complex construction/engineering, or fusion projects.
- ***Education:***
  - Master's Degree or equivalent in 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:***
  - Assembly and alignment of large components;
  - Leading and motivating technical teams, including at least managerial experience to motivate and develop team members' competencies;
  - Multi-disciplinary project management, including preparation of resource-loaded schedule, managing budgets, specifying and managing large, complex public contracts (specifications, tendering, awarding, etc.);
  - Implementing and supervising all aspects of assembly work including safety, quality, scope, schedule and cost;

- Developing innovative solutions to solve complex and technologically sophisticated engineering problems;
- Understanding of the main requirements for assembly of a tokamak and the basic functionality of the ITER or similar machine is considered as advantageous;
- Manufacturing and quality control in stainless steel structures and superconducting magnets is an advantage;
- Conditions needed to successfully operate superconducting magnets subject to high voltage is an advantage;
- IT tools consistent with complex project management.
- Quality Assurance and Quality Control: knowledge of requirements for international quality standards (for both management and product), methods, and practices (specific methods for the assembly and testing of superconducting magnets and / or vacuum or pressure vessels 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/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 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.