Job Title: Internal Component Division Head IO0133

Requisition ID **3620** - Posted **04/02/2021** - (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: 14/03/2021
Domain: Engineering
Department: Engineering Design
Division: Internal Components
Job Family: Line Management
Job Role: Head of Division
Job Grade: D1
Language requirements: Fluent in English (written & spoken)
Contract duration: Up to 5 years

Purpose

As the ITER Internal Components Division Head, you will ensure the design, procurement, testing, assembly and commissioning of the ITER internal components (Blanket and Divertor Systems), including work organization, schedules, priorities and interfaces to other ITER participants responsible for procurement and their industries.
You will be technically responsible for the internal components performance and act as an interface between the Internal Components Division & other participant teams involved in the Internal Components procurement.
You will also oversee the activities carried out by the Test Blanket Module (TBM) Project Team in the execution of the TBM Program.

Background

The internal components cover almost all of the internal surface of the ITER vacuum vessel and represent the physical interface between the thermonuclear plasma and the rest of the tokamak. They consist of two main systems: the Blanket (this includes the first wall) and the Divertor as well as the related operational instrumentation. They are designed and manufactured according to the highest quality standards are suitable for replacement by remote handling during the operational life of the ITER tokamak. The main design drivers for the Blanket and Divertor are the very high surface heat fluxes, the cyclic nature of the heat fluxes and the electromagnetic loads.
ITER should test tritium breeding module concepts that would lead in a future reactor to tritium self-sufficiency, the extraction of high grade heat and electricity production."

All the ITER Organization activities related to this mission form the so-called “TBM Program” and are managed via the TBM Project Team.

Major Duties/Roles & Responsibilities

- Provides effective leadership for the Division, managing resources and ensuring that team members are motivated and constantly developing their skills and experience;
- Manages the design, specification, procurement, assembly, and installation of associated systems (Blanket and Divertor Systems and their operational instrumentation);
- Oversees and manages all technical aspects of these systems, develops detailed implementation plans for all work, and monitors and controls quality, costs and schedules for all activities;
- Ensures that the engineering design of the associated systems meets the requirements of the ITER machine;
- Effectively collaborates with the TBM Project Team Leader to ensure a timely and positive execution of the TBM Program;
- Prepares hand-over packages for installation, assembly, testing and commissioning of the systems to ensure a successful operation of the ITER Facilities;
- Builds and maintains relationship with internal and external stakeholders and effectively interfaces with ITER Domestic Agencies (DAs) responsible for procurement;
- Effectively manages interfaces and collaborates with the Construction department and Construction Teams;
- Shows strong commitment to the ITER Safety Program and enforces it through individual behaviour and in his/her organization;
- Executes and delivers the baseline for scope, budget and schedule of the systems in the Division;
- Assures that IO’s goals are achieved in a timely and effective manner, which meets safety, quality, cost and schedule targets;
- 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

- Builds up the Division and manages it effectively;
- Ensures that the Division deliverables meet safety standards, quality, schedule and cost requirements;
- Effective communications within the group, with all interfacing ITER organizations, and with the Domestic Agencies;
- Monitors efficiently Key Performance Indicators for the Division;
- Responsible for implementation of safety nuclear regulation and other safety standards of the Division’s work.

Experience & Profile

- ***Professional Experience:***
  - At least 15 years’ experience in engineering or construction of advanced technology project, including 8 years of managerial/leadership experience within a large complex international engineering or scientific project.
- ***Education:***
  - Master or equivalent in the engineering 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).

- ***Technical Competencies and demonstrated experience in:***
  - Quality: Ability to lead, coordinate works and ensure all the engineering and/or construction activities are performed at a level of quality appropriate to achieving the safety, environmental security and performance objectives for large research facilities (fusion, high-energy physics, lasers, space, etc.).
  - Technical Expertise: Being recognized internationally as a Subject Matter Expert, and ability to manage interfaces and review the scope of the specific area with objective to optimize exploitation of large fusion projects or devices, to anticipate technical issues or problems drawing experience and expertise, and to ensure the nuclear safety regulations and quality requirements.
  - Team management providing leadership and ensuring development of competencies, coaching the team members and proposing a training plan;
  - Design: Ability to manage technical changes across multiple interfaces and systems, and to report and defend design progress and requirements-compliance across multiple systems.
  - Project Management: Ability to define reporting and control requirements and methodology, analyze and conclude on overall project status, define and decide actions for recovery with full transparency within the IO, and report to highest levels of stakeholders of the ITER Project.
- ***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.