

Job Title: Nuclear Building Area Manager IO0853

Requisition ID **6826** - Posted - (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.

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: 29/01/2023

Domain: Engineering Domain

Department: Central Integration Office

Division: Physical & Functional Integration Div.

Section: Design Integration Section

Group: Plant Integration

Job Family: Engineering

Job Role: Coordinating Engineer

Job Grade: P4

Language requirements: Fluent in English (written & spoken)

Contract duration: Up to 5 years

Purpose

As Area Manager of nuclear buildings, you will manage and control the as-built configuration of systems and structures of the nuclear buildings of the ITER plant. You will also be in charge of developing the use of the “Extended Reality” during the installation phase, and of the Virtual Reality activities in support of all ITER Organization (IO) stakeholders.

Background

The Physical and Functional Integration Division is in charge of ensuring the physical and function integration for the ITER project based on a System Engineering approach. Within this division, the Design

Integration Section has the responsibility to manage and coordinate activities related to the systems physical integration, physical interfaces management, implementation of Safety requirements and transverse function requirements in the layout. This team has the responsibility of the configuration of the “as designed” and “as-built” 3D models for IO buildings and systems.

Key Duties, Scope, and Level of Accountability

- Ensures proper application of the process for the as-built 3D model configuration control for all IO buildings and proposes any needed improvements;
- Defines the priorities for as-built 3D model activities in line with IO project milestones, taking into account the construction schedule and progress, the installation and access constraints;
- Defines and manages necessary analysis to be performed on the as-built data such as: Impacts of as-built configuration on 1) the remaining systems to be designed or installed and on 2) the transverse functions requirements, such as Fire protection or Radiological shielding;
- Controls the configuration of the as-built 3D model for all IO buildings;
- Coordinates the assessment of design change requests, deviation requests, and / or non-conformance reports related to layout and ensures the implementation of the agreed changes, recovery actions and mitigation solutions in a timely manner;
- Collaborates with all stakeholders across IO and externally to ensure a proper understanding of the 3D as-built configuration;
- Develops procedures as needed to improve IO process specific to physical integration planning and implementation;
- Develops the Virtual Reality activities in a global “Extended Reality” approach;
- Keeps abreast of technological developments to maintain IO up-to-date Virtual Reality processes and infrastructure (Hardware and Software aspects) in line with the needs;
- 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.

Measure of Effectiveness

- Completes objectives related to as-built 3D model development for all systems and structures in nuclear buildings within the design and construction schedule;
- Provides accurate reports on the status of the as-built configuration;
- Manages issues promptly and provides suitable solutions in a timely manner;
- Maintains excellent collaboration with safety, construction, operation and engineering stakeholders;
- Develops, updates, and ensures that methods for as-built management and Extended Reality is kept up-to-date.

Experience & Profile

- **Professional Experience:**
 - Minimum 10 years’ experience in the design, layout and installation of nuclear systems, structures or components in the field of complex construction management;
- **Education:**
 - Master’s degree or equivalent in Mechanical or Construction 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).
- **Other requirements:**
 - 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.

- **Technical competencies and demonstrated experience in:**
 - As-built 3D models including associated data management;
 - Extended Reality and/or Virtual Reality would be considered advantageous;
 - Coordination of design and construction activities, development of detail work schedules, monitoring the status of the project and generating effective reports on of the work;
 - Coordinating design activities and proficiency in CAD design tools (e.g. PDMS, CATIA, POLYWORKS);
 - Project Management: planning, measuring, and reporting on progress, managing risks, costs, and resources within human and financial constraints;
 - Problem solving: assess problems, identify root causes, and reach solutions to reach project objectives within time and cost;
 - Planning: define scopes of work, duration, cost estimates, sequencing, risk and planning for change management;
 - Managing issues and change/deviation requests and providing appropriate solutions.

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
- ITER Core Behavioral Competencies :
 - 1) **Collaborate:** Ability to facilitate dialogue with a wide variety of contributors and stakeholders
 - 2) **Communicate Effectively:** Ability to adjust communication content and style to deliver messages to work effectively in a multi-cultural environment
 - 3) **Drive Results:** Ability to persist in the face of challenges to meet deadlines with high standards
 - 4) **Manage Complexity:** Ability to analyze multiple and diverse sources of information to understand problems accurately before moving to proposals
 - 5) **Instill Trust:** Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity
- 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.