

Job Title: Nuclear Systems Integration Coordinator IO0694

Requisition ID **3840** - Posted **22/04/2021** - (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: 06/06/2021

Domain: Engineering

Department: Central Integration Office

Division: Physical & Functional Integration

Section: System Integration

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 Nuclear System Integration Coordinator, you will implement the Systems Engineering processes, including requirements management, technical interface management and configuration management.

Background

The Physical and Functional Integration Division is in charge of integration studies and reviews for the ITER project. Within this division, the System Integration Section has the responsibility of supporting design teams in system engineering activities.

Major Duties/Roles & Responsibilities

- Leads the ITER System Engineering approach associated with interface management, requirements management and configuration management as a core member of Design Authority System;
- Plans and manages validation of requirements during commissioning and coordinates proper implementation;
- Finalizes the technical baseline, e.g., system design requirements, essential design parameters, etc., reflecting the results of commissioning;

- Plans, organizes and manages the design gate reviews to verify the functional and/or physical integration of the system and the requirements implementation;
- Manages the optimization of design requirements and ensures that transverse requirements are well defined and implemented in the design;
- Leads configuration management tasks, including the technical assessment of Project Change Requests and non-conformities a core member of Design Authority System that is expected to be implemented in 2023;
- Organizes any other activities related to Functional Analysis;
- Coordinates stakeholders in order to establish functional interfaces and interface requirements;
- Generates or reviews, and maintains, the Baseline Documents including the Systems Requirements Documents, the Interface Control Documents and Interface Sheets;
- Develops and maintains a mapping of engineering activities related to ITER Instrumentation & Control and electrical systems;
- Leads technically transverse electrical and I&C tasks related to all ITER client systems (ex: power balance optimization);
- Develops and maintains smooth collaboration with all stakeholders for the implementation of the Systems Engineering approach;
- May be required to work outside ITER Organization reference working hours, including nights, weekends and public holidays.;
- May be requested to be part of any of the project/construction teams and to perform other duties in support of the project.

Measure of Effectiveness

- Implements Systems Engineering processes within the defined quality, cost and schedule;
- Enhances and maintains efficiently the ITER System's functional integration;
- Ensures all Project requirements are properly cascaded down into systems requirements;
- Ensures functional requirements are properly established, optimized and traceable;
- Interfaces of systems are identified with support of results of functional analysis, and all interface requirements are defined in the Interface Sheets
- Provides evidence in a timely manner to demonstrate requirements are met per the compliance requirements matrix at relevant gate reviews;
- Coordinates transverse technical tasks within the defined quality, cost and schedule;
- Manages stakeholder expectations through progress reports and communication within defined timelines.

Experience & Profile

- **Professional Experience:**
 - At least 10 years' experience as Systems Engineer in the field of design, engineering, construction and commissioning of nuclear facilities, preferably in international environment.
- **Education:**
 - Master's degree or equivalent in mechanical, process or nuclear 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:**
 - Design and analyses of systems (especially functional analysis);
 - Quality Assurance and nuclear quality standards implementation is required;
 - Technical knowledge about electrical / I&C engineering is required;
 - Procurement, construction and commissioning of systems for nuclear facilities;

- Project Management: planning, measuring, and reporting on progress, managing risks, costs, and resources within human and financial constraints;
 - Interface management: identify, resolve and maintain technical and functional interfaces;
 - 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;
 - Capacity to coordinate transverse technical analysis;
 - DOORS (requirements management software) and PLM (plant life cycle management software) or equivalent is considered as 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 problems accurately before moving to proposals;
 - Instill trust: Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.
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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.