Job Title: Steel Structures Coordinator IO0509

Requisition ID **4940** - 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.

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: 02/01/2022
Domain: Engineering
Department: Central Integration Office
Section: Integrated Engineering Analyses
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 of Steel Structures Coordinator, you will coordinate activities within the Integrated Engineering Analysis Section (IEA) related to steel structures, with a particular focus on finalizing the design and analysis of steel platforms, mentoring and coaching stakeholders as necessary.

Background

The Integrated Engineering Analysis Section (IEA) is a multidisciplinary team of engineers with expertise in structural, seismic, electromagnetic, computational fluid dynamics (CFD) and systems analyses, as well as materials, codes and standards and equipment qualification. Among other tasks, IEA:

- Coordinates and performs multi-system analyses to define loads and verify that project requirements are properly met;
- Performs engineering analyses to support the licensing application, and design verification of SSCs, based on project priorities.

Key Duties, Scope, and Level of Accountability

- Defines, in close collaboration with other stakeholders, the load, safety, quality, cost and schedule requirements for steel structures, and ensures that these requirements are met;
- Ensures optimum cost/benefit for steel structures (value engineering);
- Manages interfaces/integration issues between steel platforms and the supporting civil structures and supported equipment, including negotiating with responsible officers of interfacing systems;

- Coordinates, contributes to, reviews and controls design and analysis activities and engineers/designers, including optimizing the allocation of both internal and external resources under their supervision;
- Defines, in close collaboration with stakeholders responsible for procurement and installation, analysis methodologies for steel platforms including choice of analysis software, and updates the methodologies based on lessons learned and the development of industrial best practices;
- Provides innovative solutions to analysis problems and design concepts beyond the scope of standard industrial practice;
- Manages in-cash contracts and associated resources related to the design and analysis of steel structures, including writing technical specifications and other procurement documents;
- Manages, in accordance with the applicable procedures, the impact of change requests on the analysis of steel structures;
- 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.

Measure of Effectiveness

- Manages internal and external resources efficiently to ensure that steel structure designs and analyses are delivered within time and cost, whilst complying with safety and quality requirements.
- Manages efficiently priorities of their actions to meet technical requirements and cost & schedule milestones;
- Provides accurate calculations and analysis reports according to the defined schedule and in line with industrial best practices;
- Strives to ensure that lessons learned and engineering solutions/methodologies are updated, and further propagates their usage within the project to mitigate future issues/delays;
- Collaborates effectively and professionally with all stakeholders and maintains excellent relations with interfacing teams;
- Anticipates analysis problems and provides feasible solutions promptly to minimize disruption to the schedule.

Experience & Profile

- ***Professional Experience:***
  - Minimum 10 years' experience in the analysis and design of steel structures within complex international environments or projects.
- ***Education:***
  - Master's degree or equivalent in civil, structural or 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:***
  - **Specialized Domains of Expertise: Steel Structure Analysis** (Including the application of Eurocode 3 rules, requirements and best practices, and a deep understanding of their underlying principles; Finite element analysis methods and their application to civil structures);
  - **Design:** All aspects of manufacturability and preparation of manufacturing drawings of steel structures, including bolted and welded connections;
  - **Writing and Presentation:** Authoring and reviewing structural analysis reports for steel structures with clarity and precision;

- **Management and coordination of analysis activities**, including the activities of other stakeholders;
- **Contract management and execution:** define needs and requirements, author technical specifications, evaluate tender submissions, monitor contract execution, and manage external resources to ensure implementation within contractual requirements;
- **Interface management:** Identify, resolve and maintain technical and functional interfaces related to steel structures;
- **Problem Solving:** Identifying problems in a comprehensive and fact-based manner (who, what, when, …), and proposing practical solutions in a consistent way to reach project objectives;
- Wider civil engineering design codes would be a strong advantage;
- ANSYS, SAP2000 and GT STRUDL would be advantageous.

- ***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, 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.