Job Title: Design Office Infrastructure Engineer IO0469 & IO0045

Requisition ID **4760** - 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: 21/11/2021
Domain: Engineering
Division: Design Office
Section: CAD Infrastructure
Job Family: Engineering
Job Role: Engineering Specialist
Job Grade: G6
Language requirements: Fluent in English (written & spoken)
Contract duration: Up to 5 years

Purpose

<u>Two positions</u>
As a Design Office (DO) Infrastructure Engineer, you will manage the administration, deployment, software certification & enhancement of the Computer Aided Design (CAD) infrastructure for the CATIA Equipment & System (E&S) plant design.

One position will focus on multi-CAD development, including CATIA E&S infrastructure. The other position will be a generalist infrastructure engineering role for project software used in the DO (such as CATIA, PLM, Smart Plant etc.).

Background
The ITER project is using several 2D and 3D CAD software for the engineering design and construction planning of the project. The CAD software need to be regularly adjusted/customized to new/changed project requirements (e.g. handover from engineering to construction, integration with other project software (e.g. PLM, SAP), data handover to construction, and automation of CAD deliverables (e.g. BoM, drawings). One mission of the DO and part of the tasks of the Design Office Infrastructure Engineer is to manage projects related to CAD software enhancements. This includes to collect project needs leading to CAD software changes and related deliverables, interface with CAD users requesting changes to the CAD software, clarify the needs, write technical specifications and coordinate the adjustments with IT, and software publisher. The implementation, training and support to CAD users is part of this activity. Due to the usage of CAD software from several software publishers (Multi-CAD), the DO needs to ensure a CAD data and engineering data consistency between the CAD tools (CAD context) and other project software.

The Design Office Infrastructure Engineer will specify and implement/maintain efficient CAD and Engineering Meta data exchanges between the tools, allowing the project to work in a Multi-CAD environment (CAD data viewing, concurrent design…).

Key Duties, Scope, and Level of Accountability

- Specifies and implements the relevant project requirements in the CAD software area (Safety Authority regulations, Quality Assurance, configuration, multi-discipline engineering, tagging, construction drawings, coordination & integration, efficiency, cost control, etc.) within the assigned CAD Infrastructure developments focusing on CATIA E&S;
- Rolls out projects related to architecture, maintenance & improvements of the ITER CAD Infrastructure involving CATIA V5, ENOVIA LCA/VPM V5, AVEVA, IGE+XAO, integration with ENOVIA V6 and other CAD and project (e.g. PLM, Smart-Plant) related software with focus on multi-CAD;
- Supervises or/and performs activities related to CAD user requests, database issue fixing, software enhancement specifications, plans software migrations and customisation, interfaces and coordinates with IT and software publishers, user training, certification & coaching of the DO environment and associated quality documentation, including the propagation of the information to the CAD users at ITER Organization, Domestic Agencies (DAs), suppliers & external CAD design contributors;
- Manages contracts & task orders with contractors (software publishers, integrators & supports, catalogue producers…) and the associated workflows with users (ticket authorization & validation…);
- 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 efficient and high quality usage of the CATIA E&S Applications at IO and DA/Suppliers;
- Ensures proper usage of the CAD plant infrastructure by IO & non-IO Users
- Manages the implementation of an efficient Multi-CAD solution for CAD and Engineering data between CAD applications and other project software, and ensures the implementation is as per cost and schedule restraints;
- Interacts well and builds positive relationships with internal and external stakeholders.
- Ensures effective use of resources with regards to the schedule & cost containment.

Experience & Profile

- *Professional Experience:*
  - Minimum 9 years' experience in CAD software (including CATIA Equipment & Systems as a requirement for one of the positions) and CAD database related architecture, deployment, training, coaching, testing and development for a large multi-disciplinary, construction project, within complex international environments.
- *Education:*
  - Bachelor degree or equivalent in Engineering, Computer Science 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:*
  - **CAD Infrastructure:**
    - Specialised infrastructure expertise and CAD production management (including integrated CAD architecture, development and customization experience, involving multi-CAD solutions for CAD data and related engineering meta data and integration with other software (e.g. PLM, Smart-Plant);

- Specifying, implementing and/or following-up software and tools customisation, testing and maintenance (incl. bug fixing);
- Implementing CAD architecture in overall IO platform with focus on CATIA E&S administration and Multi-CAD implementation; Maintaining CAD databases; developing application macros (VBA) for automation, Executing CAD Data quality control, verification and publication; Providing advice to users in the project on software usage, methods and best practices;
  - **Quality Control:** Verifying compliance of the products with all applicable requirements**;**
  - **Interface Management:** Identifying, resolving and maintaining technical and functional interfaces;
  - **Documents and Records:** Document management, processing and records management, Being aware of documents and records control processes and procedures; AVEVA and/or IGE+XAO would be an advantage;
  - Remote design collaboration environment would be an advantage;
  - Project Management 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 define problems accurately before moving to proposals/solutions;
  - 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.