Job Title: CAD Technician IO0472

Req ID **1810** - Posted **10/07/2020** - (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: 23/08/2020
Domain: Engineering
Division: Design Office
Section: CAD Activities
Job Family: Project Engineering
Job Role: Technician - 2
Job Grade: G3
Language requirements: Fluent in English (written & spoken)
Contract duration: 2 years

Purpose

Up to two openings
Please note, the contract length for these positions will run until December 2022.
As a CAD Technician, you will be responsible for producing and supporting the review of CAD deliverables (2D diagrams, 3D drawings, Bill of Materials) on a range of mechanical components and plant systems. You will primarily use the CATIA Suite/ENOVIA V5 together with See System Design to ensure a high quality of design to warrant the continued use of these deliverables as the project advances from manufacturing and construction, to commissioning and operation phases.

Background
The ITER Organization (IO) Design Office (DO) is in charge of all the CAD related aspects for the project and this during all the project phases (engineering design, construction, commissioning, operations and maintenance). The DO is divided in 2 sections, CAD infrastructure Section (CIS) in charge of the software deployment, customization, maintenance and training and the CAD Activities Section (CAA) in charge of the CAD production (all typical deliverables to be covered) in support to all IO systems. The present position is part of the CAA section

Major Duties/Roles & Responsibilities

- Produces CAD Deliverables such as: general arrangement/layout drawings, schematics, 3D models, assembly/part drawings, isometrics, interface & composite drawings, bills of materials, 3D

simulations, tagging & other CAD data to support all phases (design, procurement, pre-assembly, installation, commissioning and operation);
- Executes technical studies, impact assessments and the implementation of change requests and design review preparations, alerts on new issues and any deviation;
- Support the responsible officers in the of reviews all CAD deliverables produced by other internal and external entities and suppliers to ensure they correspond with technical requirements;, (2D diagrams, 3D, Drawings, Bill Of Material) related to project milestones;
- Supports the integration, interface clarifications and solves design issues;
- Develops / converts files for dedicated analysis;
- Collaborates with remote partners to support CAD design Work Packages;
- Updates and maintains CAD data and related databases;
- Enforces the implementation of design activities in accordance with standardization and catalogues / component identification, CAD data exchanges, maintenance of the context and configuration branches are accurate;
- Implements CAD Quality Assurance (QA) and Quality Control (QC) requirements and measures;
- Preserves component/ system knowledge related to design activities, to ensure a smooth transition into the next project phase;
- 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.

Measures of Effectiveness

- Produces CAD deliverables in a timely manner and ensures a high level of quality
- Provides accurate CAD deliverables to the project to effectively support the equipment design, procurement, installation and testing within the defined time schedule;
- Contributes to design & integration solutions by having a positive approach to problem solving;
- Continuously supports and propagates the proper usage of the CAD infrastructure by all users;
- Produces accurate reports and Key Performance Indicators, both on time and to a high quality standard;
- Applies best industrial practices in the area of CAD, Design discipline, manufacture-ability, design integration of equipment, circuits & interfaces, installation, commissioning and maintainability.

Experience & Profile

- ***Professional Experience:***
  - At least 3 years' experience working in CAD Design;
- ***Education:***
  - At least 2 years' post-secondary education or equivalent in a Technical 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:***
  - Detailed design and integration design, in Mechanical or/and Plant fields;
  - Full lifecycle design from preliminary analysis / sizing, materials and welding / inspection processes, non-destructive testing, manufacturing quality control, installation processes, tooling & fabrication, assembly sequences, transport/handling, and storage;
  - Geometrical configuration control & integration;
  - Functional and dimensional tolerances;
  - Software control and model development, CAD infrastructure and production: Specialized design expertise in software, tool implementation, customization, geometrical integration, and QC;

- Multi-national projects, preferably in fusion and/or nuclear energy involving large components and structures, support systems, high-power circuits & buildings and complex interfaces would be an advantage;
- Performing complex activities while complying with schedule & cost containment constraints;
- Design support activities would be an advantage: CAD data exchanges, catalogue development and maintenance, software administration and support, CAD QA/QC.
- CATIA Equipment & Systems, advanced CAD data-bases like ENOVIA V5, advanced process/schematics software like Visio-based See-System-Design, AVEVA/PDMS and PLM 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 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.