

# Job Title: CAD Technician IO0432 & IO0440

Requisition ID **5880** - 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:** 27/04/2022

**Domain:** Engineering

**Division:** Design Office

**Section:** CAD Activities

**Job Family:** Engineering

**Job Role:** Technician – 2

**Job Grade:** G3

**Language requirements:** Fluent in English (written & spoken)

**Contract duration:** Up to 5 years

**At least two positions to be filled in**

## **Purpose**

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As a CAD Technician, you will execute design activities related to mechanical & plant systems.

You will apply best industrial practices in the area of Computer Aided Design (CAD) manufacturability, design integration, components, circuits & interfaces, installation, commissioning, operation and maintainability.

Additionally, you will support the deliverable-based approach (at IO & outside IO) & remote design collaboration.

## **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.

## **Key Duties, Scope, and Level of Accountability**

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- 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;
- Supports the integration, interface clarifications and solves design issues;
- Develops / converts files for dedicated analysis;
- Updates and maintains CAD data and related databases;
- Supports design activities associated to: standardization and catalogues / component identification, CAD data exchanges, maintenance of the context and configuration branches are accurate;
- Complies with CAD Quality Assurance (QA) and contributes to Quality Control (QC);
- 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.

### Measure of Effectiveness

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- Contributes to design & integration solutions with a high level of autonomy;
- Contributes to complex activities while complying with schedule & cost containment constraints;
- Performs multi-tasking while adjusting quickly to new systems, issues and working environment;
- Interacts efficiently with different team members (IO, Domestic Agency –DA– & Suppliers) on multi-disciplines topics;
- Provides solutions for the proper usage of the CAD infrastructure by ITER Organization (IO) & non-IO Users;
- Contributes to Quality Control (QC);
- Contributes to CAD activities Key Performance Indicators;
- Produces the required reports on time and in accordance with a high quality standard.

### Experience & Profile

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- **Professional Experience:**
  - Minimum 3 years' experience working in CAD Design within complex international environments or projects;
- **Education:**
  - Bachelor degree 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:**
  - **Design (creating technical designs based on project requirements):** Writing basic technical documents applicable to the field concerned; Understanding and interpreting basic 2D drawings and 3D models; Running basic models and calculations; Contributing to design review;
  - **CAD Production (specialised design expertise and CAD production management):** Understanding, planning and executing CAD mechanical / plant design and geometrical integration, in compliance with engineering, MQP and quality standards; CAD data verification and quality control; Some analyses (calculations, stress, seismic) in a limited part of one's area of work; Experience in using CAD software (CATIA Equipment & Systems, See-System-Design, AVEVA/PDMS) and databases (ENOVIA V5);

- **Interface Management (identifying, resolving and maintaining technical and functional interfaces):** Working collaboratively on a range of tasks or targeted activities; Maintaining an overall interface plan covering all identified and potential interfaces; Understanding and proposing appropriate interface definition;
- Basic knowledge in: CAD Infrastructure; Configuration Management and Identification / Controls of Items;
- Experience in 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.
- **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.