

# Job Title: Coil Technician IO0339

Requisition ID **6623** - Posted - (France, 13067 St Paul Lez Durance Cedex) - **Construction and Installation - 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:** 28/10/2022

**Domain:** Construction Domain

**Department:** Machine Construction Department

**Division:** Ex-Vessel Delivery & Assembly Division

**Section:** Magnet Section

**Group:** Superconducting Coils & Assembly

**Job Family:** Construction

**Job Role:** Coordinating Technician

**Job Grade:** G5

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

**Contract duration:** Up to 5 years

## **Purpose**

To provide engineering support to assembly activities, in particular those related to the ITER Central Solenoid (CS), Poloidal Field (PF), Correction coil (CC) coils and Magnet Supports. This will also comprise instrumentation, assembly tools and cooling structures.

## **Background**

The position is within the Magnet Section which is in charge of the procurement follow-up of major Superconducting Magnets such as the Central Solenoid (CS), the Poloidal Field coils (PF) and the Correction Coils (CC) in collaboration with US, EU and CN domestic's agencies. In parallel to the manufacture, the position will support component assembly from the work description preparation up to their actual integration in the tokamak. The assembly activities are executed in close collaboration with industrial contractors.

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

- Ensures that the proper recommendation and approval procedures are implemented as part of the assessment process for all documents and drawings;
- Carries out assessments to support manufacturing optimization and change requests;

- Assists in the preparation of suitable models based on as-built data and uses the models to perform assembly studies and simulations. Ensures that quality controls are properly implemented and documented during manufacture and assembly on-site;
- Contributes to the preparation of assembly procedures and tooling related to the magnetic coils and supports;
- Supports the preparation and the execution of Engineering Work Packages (EWP) related to CS, PF and CC coil assembly on the basis of system engineering input, including surveillance of related construction work execution onsite;
- Supports the clarification of interface issues in relation to onsite construction activities with special focus on integration aspects;
- Assists for the design of mock-ups and tools, performs testing and mechanical assemblies related to the installation activities in PIT of the machine;
- Maintains and updates the procedures and associated documentation on assembly activities;
- 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

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- Provides EWPs supporting documents in a timely manner and reviews contractors IWP documentation (Method statements, risk assessments, ITPs, etc.) within CWP scope of work to a high quality;
- Effectively supports the site construction works and the assembly activities of the contractors as magnet supervisor;
- Ensures that the proper approval procedures are implemented and traced as part of the assessment process for all documents and drawings;
- Actively reports and suggests suitable solutions to of non-conformities, field changes or coordination issues;
- Implements, maintains and issues in a timely and accurate way reports on assembly of components;
- Generates and maintains accurate coherent, comprehensive and understandable documentation;
- Performs activities related to the Project Construction Team in a safe, accurate and timely manner.

### Experience & Profile

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- **Professional Experience:**
  - Minimum 7 years' experience in years' experience as a Technician in the field of Coils, Magnets or other complex mechanical components within complex international environments or projects.
- **Education:**
  - Bachelor degree or equivalent in Mechanical 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: Mechanical design for mockup and testing or assembly procedures;
  - Autonomously working on the means and methods of installation, planning and preparing technical instructions, documentation and drawings related to low temperature superconductivity; electromagnetism; high voltage electrical insulation; welding techniques; high vacuum technology.
  - Quality control: verifying compliance of components with applicable requirements and ensuring implementation of quality standards/procedures;
  - Machining, mechanical assembly, hydraulic tightening would be advantageous;

- Site working experience in nuclear power plant 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.
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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.