

Job Title: Vacuum Vessel Engineer IO0764

Requisition ID **4640** - 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: 07/10/2021

Domain: Construction

Department: Machine Construction

Division: Sector Modules Delivery & Assembly

Section: Vacuum Vessel

Job Family: Construction

Job Role: Construction Engineer – 1

Job Grade: P2

Language requirements: Fluent in English (written & spoken)

Contract duration: Up to 5 years

Purpose

As A Vacuum Vessel (VV) Engineer, you will be responsible for coordinating and supporting the on-site installation and assembly activities of the VV and related Sector Module Components in the Assembly Hall and In Pit

Background

The VV Section is in charge of the design, integration, follow-up of manufacturing, assembly and commissioning of the Vacuum Vessel and associated components.

Key Duties, Scope, and Level of Accountability

- Coordinates the on-site assembly of the VV and associated Sector Module Components;

- Supports pro-actively the setup of installation and inspection plans in accordance with Quality Assurance/Quality Control (QA/QC);
- Supports document reviews provided by the assembly contractor;
- Assures the qualification of processes related to welding and non-destructive examination (NDE) as well as Helium (He) leak tightness;
- Supports the preparation of engineering documentation and tooling for the assembly;
- Supports the resolution of technical issues related to the manufacturing (such as non-conformities), and issuing of assembly field change requests (FCR);
- Acts as interface between VV Section and IO Logistics in areas of component tagging, creation of Bill of Materials, material handling in and out of warehouse and component transport on-site during assembly;
- 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

- Contributes efficiently to the assembly activities of VV components in a timely manner and within defined costs;
- Contributes efficiently to the quality control and supervision of the assembly activities;
- Maintains an efficient working relationship with industrial partners;
- Develops and maintains accurate, coherent, comprehensive, and understandable assembly documentation within the defined schedule;
- Communicates effectively and professionally with all internal and external stakeholders.
- Establishes preservation and storage requirements for VV components, and monitors their compliance during the assembly phase;

Experience & Profile

- **Professional Experience:**
 - At least 5 years' experience (7 for Bachelor's degree) working in the field of engineering, manufacturing, installation and assembly of mechanical, nuclear, or cryogenic components.
- **Education:**
 - Masters or Bachelor's degree or equivalent in Mechanical Engineering field or other relevant discipline;
 - The required education degree may be substituted by technical training or 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:**
 - Integrated Management of Construction and Engineering: Managing overall plant installation strategies and engineering solutions within a reasonable time and cost;
 - Construction Oversight: Ensuring that construction work is executed in accordance with requirements (in particular related to the assembly of large/heavy components/structures);
 - Writing and Presentation: Writing technical documents in the domain of expertise, document and transit technical knowledge and data with clarity and precision (specifically for manufacturing, inspection and installation procedures and ensuring their correct implementations);

- Acceptance testing and commissioning of components including bending, GTAW welding, NDE, and He leak test;
 - Ability to implement metrology and QA/QC standards;
 - Heavy component rigging and lifting 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.