Job Title: Mechanical Engineer, Metrology IO0009

Requisition ID **8168** - Posted - (France, 13067 St Paul Lez Durance Cedex) - **Engineering of Systems** - **New Posting**

Fusion, the nuclear reaction that powers the sun and the stars, is a promising long-term option for a sustainable, non-carbon emitting global energy supply.

The ITER Organization (IO), based in the southern France, welcomes best talents who can together prepare the way to this new energy in a truly multi-cultural work environment.

We offer challenging assignments in a wide range of areas and encourage applications from candidates will all levels of experience. Applications from under-represented ITER Members' nations and women candidates are strongly encouraged, as IO strongly believes that a diversified, equitable, and inclusive workplace is crucial in solving one of the most complex scientific and engineering projects in the world today.

As the IO attracts and retains people coming from a vast array of different backgrounds and cultures, discrimination and exclusion cannot be tolerated. The IO believes it is our diverse perspectives and background that gives unique strength and value to the ITER mission, regardless of race, member nation, gender, religion, status, sexual orientation, or disability - all are welcome and respected at ITER.
The IO is committed to fostering a fair and equitable environment across all areas of the project, including compensation and benefits.
ITER CARE Values (Collaboration / Accountability / Respect / Excellence):
We perform our work with care, we care for the well-being of colleagues, our families and ourselves, and we care about the health of the planet for generations to come. CARE drives our work and our behaviors at ITER.

To see why ITER is a great place to work, please look at this video

Application Deadline: 30/11/2025
Department: Engineering Services Department
Division / Program: Assembly & Commissioning Support Div.
Section / Project:
Job Grade: P1/P2 (SALARY SIMULATOR)
Language Requirements: Fluent in English (written & spoken)
Contract Duration: Up to 5 years
*The selection process will be conducted with the objective of filling **the below vacant position** with also the purpose of drawing up a reserve list of rostered candidates for future vacant positions. The reserve list initially remains valid for two years, with the possibility of extension at the Director-General's discretion.*
Please note that the entry grade of this position begins at P1 and the final grade offered to the selected candidate is subject to the decision of the IO Director General.

Overview

Are you looking for an exciting opportunity at the heart of an ambitious fusion energy project? Join our Assembly and Commissioning Support Division (ACSD) within the Engineering Service Department (ESD) as a Metrology Engineer.

As a **Mechanical Engineer** specialized in Metrology, your goals include:

- Providing metrology expertise during construction of the ITER Tokamak components, assemblies and associated plant systems.
- Ensuring deliverables are produced within a quality-assured environment that requires rigor and a systematic way of working.
- Developing, under the leadership of your discipline manager, your skills and experience for the benefit of the Project.

The ESD provides the required skilled engineering resources or services, which are necessary for the successful completion of the ITER Project.
The ACSD Division provides technical support to the ITER project in the assembly of the machine and the plant systems, site coordination and in-field engineering support to installation activities, component and system commissioning and operation of the systems once the commissioning is complete. Being a member of the ACSD Division, you will have the opportunity to share and develop your expertise with other colleagues working in the same discipline in different ITER units.

Key Duties and Responsibilities

Primary responsibilities:

- Collaborates with multidisciplinary teams by providing assistance and guidance in the application of metrology techniques, aiming to enhance communication and optimize workflows.
- Defines measurements specifications and tolerances for a variety of needs during the assembly phase of the ITER machine.
- Coordinates work activities executed by contractors ensuring requisite quality is delivered in compliance with defined procedures and safe systems of work.
- Contributes to and reviews metrology procedures, dimensional and manufacturing inspection plans, metrology data/ reports, to ensure compliance with technical specifications in accordance with the ITER Dimensional Metrology Handbook.

Additional responsibilities:

- Prepares concise reports covering topics such as progress, issues, lessons learned etc. to be shared with team members, customers and managers.

Please note that job descriptions cannot be exhaustive, and the staff member may be required to undertake other duties, which are broadly in line with the above primary responsibilities.

This position may require shift rotation and/or availability including day, evening, and night shifts, as well as weekends and holidays, depending upon project or team needs. This position also requires working at height.

Experience & Competencies

Essential:
- Proven experience in the application of metrology techniques on machined and fabricated components and assemblies.
- **Metrology & Dimensional Control:**
  - Interpreting Geometrical Dimensioning and Tolerancing (GD&T) within engineering drawings.
  - Application of metrology instruments such as laser trackers, scanners, total stations, measurement arms.
- **Software:** Practical experience in metrology software for dimensional inspection and analysis, preferably with Spatial Analysis and/or PolyWorks (or similar)
- **Communicates Effectively:** Demonstrable ability to facilitate dialogue with a wide variety of contributors and stakeholders
- **Analysis and requirements definition:** Analyze technical requirements to propose efficient implementation methods for the measurements.**Continuous Improvement:** proposing changes to processes and systems to enhance efficiency, quality, and productivity over time.
- **Quality Management Systems (QMS):** apply the applicable procedures related to your field of activity.

Desirable:
- Demonstrable experience gained within a large international project with strong dimensional requirements.
- **Organizational Savvy:** manoeuvring comfortably through complex policy, process, and people related organizational dynamics.
- **Optimizes Work Processes:** knowing or identifying the most effective and efficient processes to get things done, with a focus on continuous improvement.

Qualifications

Essential:
- Master’s degree or equivalent in mechanical engineering / surveying or similar discipline.

Desirable:
- Certifications relating to operating metrology instrument and/or metrology software.

The required education degree(s) may be substituted by extensive professional experience involving similar work responsibilities and/or additional training certificates in relevant domains

The following items apply to all jobs and job holders for the duration of tenure at ITER Organization:

- **The CARE Values are a framework of principles that guide our actions and define the culture and spirit of the ITER Project:**
  Collaboration: We collaborate with commitment and flexibility using the power of teamwork, building partnerships, and working with others to reach shared objectives;
  Accountability: We are accountable for the whole project - we take responsibility for our specific actions and are transparent in our daily work, holding self (ourselves) and others accountable to meet commitments;

Respect: We treat each other with respect and dignity at all times, knowing that all of us belong here. We appreciate the value that our multicultural and diverse community brings to the ITER Project;

Excellence: We are driven by excellence; we are agile and innovative while maintaining the highest standards of safety, quality and integrity;

- **ITER Core Technical Competencies**:
  1) **Nuclear Safety, Environment, Radioprotection and Pressured Equipment**
  2) **Occupational Health, Safety & Security**
  3) **Quality Control & 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 perform other duties in support of the project as defined by your line manager, and when relevant upon the request of the matrix manager;
- May be requested to work outside the ITER Organization reference working hours, including nights, weekends and public holidays, due to business needs - this may include on-call, shift work, etc.
- May be requested to be part of any of the project/construction teams and to perform other duties in support of the project;
- For staff expected to perform on-call, shift hours, or other work outside ITER Organization reference working hours, including nights, weekends, and public holidays, **the possession of a driving license valid in France is required. no commuting vehicle will be provided by the ITER Organization.**
- Informs management of any important and urgent issues that cannot be handled by line or matrix management and that may jeopardize the achievement of the Project's objectives;

The ITER Organization (IO) is an Equal Opportunity organization committed to diversity and inclusive in the workplace.