

# Job Title: Nuclear Pressure Equipment Engineer SD-035

Req ID **832** - Posted **12/10/2019** - (France, 13067 St Paul Lez Duranc) - **Nuclear safety engineering and assurance - 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 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.

**Application deadline:** 11/11/2019

**Domain:** Director-General

**Department:** Safety & Quality Management

**Division:** Environmental Protection & Nuclear Safety

**Section:** Not Applicable

**Job Family:** Organizational Support

**Job Role:** Functional Officer - 1

**Job Grade:** G6

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

**Contract duration:** Up to 5 years

## **Purpose**

To assess the conformity of the pressurized equipment during design fabrication, test and installation, as per the regulations for Pressure and Nuclear Pressure Equipment (NPE).

To implement requirements related to ITER Quality Program and codes and standards compliance.

## **Background**

The Pressurized Equipment group is part of the Environmental Protection & Nuclear Safety Division. It is in charge of all issues related to the implementation of French regulations for Pressure Equipment (PE) and NPE. One of its main missions is to develop, maintain and implement the quality program established by ITER acting as a manufacturer of PE / NPE in the scope of Module H / H1.

## **Major Duties/Roles & Responsibilities**

- Supports the PE/NPE leader to maintain and implement the Quality Program of ITER Manufacturer of PE/NPE;
- Supervises and reviews design documentation as required to assess the conformity of PE and NPE;
- Implements the French regulation for PE and NPE in addition to applicable codes/standards during the PE/NPE design and manufacture;
- Follows-up on contractual and multiple procurement activities as required;
- Performs assessments on stress reports;
- Provides technical support relating to regulations, code and standards to all members of ITER and contractors;

- Implements all requirements dictated by the Agreed Notified Body and related to the French Regulations for PE/NPE;
- Contributes to the development of specific documentation to demonstrate the compliance of PE/NPE;
- Contributes to the development of manufacturing special techniques;
- Advises ITER Divisions on the selection of manufacturing techniques and supervises Research & Development (R&D) and qualification programs;
- May be requested to support 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, weekend and public holidays.

## Measure of Effectiveness

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- Effectively reviews design documentation established in the scope conformity assessment of PE/NPE;
- Provides accurate documentation in a timely manner;
- Keeps the ITER Quality Program for Module H/H1 up to date;
- Ensures that knowledge is kept up to date regarding regulations for PE/NPE.

## Experience & Profile

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- **Professional Experience:**
  - At least 5 years' experience in the design supervision of components for Nuclear Pressure Equipment and/or Pressure Equipment;
  - Demonstrated experience in calculation software (GT strudel, ANSYS,...) and in applying manufacturing codes for PE/NPE (EN Standards, ASME, RCC-MR...);
  - Basic experience in the fabrication of PE/NPE including, material, forming, welding, Non Destructive Testing and testing of large stainless steel structures;
  - Basic Project Management experience is required.
- **Education:**
  - Master's Degree in Engineering or a Mechanical field or other relevant discipline in relation with the design of mechanical structures.
    - The required education degree may be substituted by extensive professional experience involving similar work responsibilities and/or training certificates in relevant domains.
- **Language requirements:**
  - Fluent in English (written and spoken);
  - Good working knowledge of spoken and written French is essential.
- **Technical Competencies:**
  - Comprehensive technical knowledge of French Regulations and manufacturing codes for PE/NPE;
  - Extensive knowledge of standards and techniques for structural integrity activities;
  - Familiarity of supervising design activities aimed at the conformity assessment of PE/NPE;
  - Basic knowledge of Quality Assurance standards (ISO 9000);
  - Ability to make clear summaries, syntheses of documents and to write reports.
- **Behavioral Competencies:**
  - Ability to work effectively in a multi-cultural team and to promote team work;
  - Collaborate: Ability to 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 gather multiple and diverse sources of information to understand problems accurately before moving to proposals/solutions;
- Instill trust: Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.
- Situation adaptability: Ability to observe situational and group dynamics to select the best-fit approach.

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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.