

## Vessel Systems Mechanical Engineer

TKM-093

<b>Reports to Line Manager:</b>	Cryostat Section Leader, Vessel Division, Tokamak Department	<b>Job Code:</b>	TKM-093
<b>Direct Employment:</b>	Not Required	<b>Grade:</b>	P3

### Purpose

To ensure the design and technical specification of the Vacuum Vessel Pressure Suppression System (VVPSS), with an emphasis on the American Society of Mechanical Engineers (ASME) VIII code compliance (Div 2);

To prepare and monitor the procurement, manufacturing and installation activities of the VVPSS.

### Major Duties/Responsibilities

- Analyses and prepares the Procurement Arrangement (PA) documents for the VVPSS;
- Writes the ASME VIII (Div. 2) compliance report;
- Establishes load conditions and other requirements;
- Performs assessment for all components;
- Supervises the preparation of the design drawings;
- Performs thermal and structural analysis as required;
- Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.

### Qualifications and Experience

- Education**
  - Degree at least equivalent to 5-8 years of study after the High School Diploma, in the Engineering field or other relevant discipline.
- Technical experience**
  - At least 8 years' experience designing and manufacturing components for Ultra High Vacuums (UHV) and/or nuclear devices;
  - Experience applying the RCC-MR and ASME compliance codes to large UHV and/or nuclear devices;
  - Experience manufacturing (forming and welding) large stainless steel structures;
  - Experience working with nuclear or pressure equipment codes and standards.
- Project experience**
  - Demonstrated capability to work in a design team and coordinate the activities of multidisciplinary and geographically dispersed personnel on a complex developmental project;

- ***Social Skills***
  - Ability to work effectively in a multi-cultural environment;
  - Excellent capability to interact with experts from different disciplines.
- ***Language requirements***
  - Fluent in English (written and spoken).
- ***Computer and IT skills***
  - Consistent with managing a complex developmental project.

### **Direct Supervisor and Interfaces**

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- Reports to the Cryostat & VVPSS Section Leader;
- Interfaces with all other departments within the ITER Organisation.

### **Authority / Approval Levels**

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The position has authority and approval levels generally defined by the Head of the Vessel Division for his/her scope of work.

### **Measures of Effectiveness**

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- Completes procurement activities in a timely manner within defined costs;
- Successfully generates and maintains coherent, comprehensive and understandable design documentation;
- Successfully maintains effective communication within the ITER Organisation.