

TITLE: VV Technical Engineer/Analyst		TKM-086
REPORTS TO LINE MANAGER: Head of the Vessel Division, Department for Tokamak		
DIRECT EMPLOYMENT: REQUIRED		GRADE RANGE: G4-G5
DATE WRITTEN: June 2008	DATE REVISED: July 2008	DATE REVISED:

Purpose:

- To work under the supervision of a professional engineer or analyst, help develop designs for mechanical systems and components, particularly vacuum/pressure vessels, thermal shields, cryostat, and VVPSS (Vacuum Vessel Pressure Suppression System);
- To prepare finite element meshes for stress, magnetic and thermohydraulic analysis.

Major Duties/Responsibilities:

- Assists with mechanical design of the VV supporting system and structural analysis under seismic and EM loads;
- Assists with mechanical design of the Thermal Shields joint structures and structural analysis under seismic and EM loads;
- Assists with mechanical design of the Cryostat supporting system and structural analysis under seismic and thermal loads;
- Assists with mechanical design of the VVPSS vessel and supporting system and structural analysis;
- Maintains a strong commitment to the implementation and perpetuation of the ITER safety program, values and ethics.

Qualifications and Experience:

- **Education:**
 - Mechanical technical engineer, with a recognized qualification (degree, diploma or similar) in Engineering or a related discipline;
- **Experience:**
 - A minimum of 10 years' experience in a similar position in a large multi-disciplinary project;
- Working knowledge of finite element codes, particularly ANSYS;
- Working knowledge of CAD systems (particularly CATIA V5);
- Knowledge of structural design code (such as ASME or RCC-MR).
- Demonstrated ability to produce high quality results;
- Strong interpersonal skills to work effectively in an international environment;
- Excellent organizing skills and co-ordination skills with the ability to set priorities and meet deadlines;
- High level of reliability and dependability;
- Documentation skills in structural analysis reports;
- Documentation skills in English.
- **Language requirements:**
 - Good working knowledge of spoken and written English is essential.

Work Direction and Interfaces:

Reports to the Head of the Vessel Division. Interfaces with all other groups within the ITER Organization as required.

Authority/Approval Levels:

Has authority and approval levels generally defined by the DDG for his/her scope of work.

Measures of Effectiveness:

- Successfully provides efficient and high quality service to the ITER Tokamak DDG and division members;
- Successfully establishes a good collaborative relationship with all members of the Department for Tokamak .