

TITLE: Senior Designer & Technician		TKM-067
REPORTS TO LINE MANAGER: Deputy Director-General (DDG) for the Tokamak Department		
DIRECT EMPLOYMENT: REQUIRED		GRADE RANGE: G4-G5
DATE WRITTEN: May, 2008	DATE REVISED:	DATE REVISED:

Purposes:

Working under the supervision of a professional engineer, helps develop designs for mechanical systems and components, assists in the preparation of procurement documents and specifications and assists with hardware procurement, assembly, installation, and testing oversight.

Major Duties/Responsibilities:

- Assists in with the development of designs for mechanical systems and components, including model and 2D drawing checking, and assessment of tolerances and tolerance studies.
- Assists in the preparation of procurement documents and specifications.
- Assists with hardware procurement, assembly, installation, and testing oversight.
- Works with CAD designers during design and model preparation (including design improvement).
- Assists with the generation of technical reports and documents based on input from the technical staff.
- Works in a multinational interdisciplinary project team and is responsible for maintaining the high quality standards of the design processes conducted by the ITER Team. He/She is expected to be able to work towards predefined goals with a high level of autonomy.
- Maintains a strong commitment to the implementation and perpetuation of ITER safety program, values and ethics.

Qualifications and Experience:

- Mechanical designer or technician, with a recognized qualification (degree, diploma or similar) in the mechanical field, or a related discipline.
- A minimum of 15 years experience in a similar position in a large multi-disciplinary project.
- Working knowledge of CAD systems (particularly CATIA V5).
- Working knowledge of mechanical manufacturing techniques and welding processes.
- Working knowledge of high vacuum systems and design practices for high vacuum operations.
- Knowledge of the relevant mechanical codes and standards (like ASME or RCC-MR) is desirable.
- 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
- Excellent communication skills and capability to work towards department goals with a high level of autonomy.
- Previous experience in research area and/ or engineering project.
- Good knowledge of MS Word and Excel.
- Good communication skills in written and spoken English.

Work Direction and Interfaces:

- Reports to the DDG for Tokamak.
- Interacts on a daily basis with members of the Department for Tokamak as well as external organizations.

Authority/Approval Levels:

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

Measures of Effectiveness:

- Provides efficient and high quality service to the DDG for Tokamak and Division members.
- Establishes a good collaborative attitude with all members of the Department for Tokamak.