

<b>TITLE: Senior Designer &amp; Technician</b>		<b>TKM-062</b>
<b>REPORTS TO LINE MANAGER: DDG of Tokamak Department</b>		
<b>GRADE RANGE: G4-G5</b>		
<b>DATE WRITTEN: MARCH, 2007</b>	<b>DATE REVISED:</b>	<b>DATE REVISED:</b>

**Purposes:**

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

**Major Duties/Responsibilities:**

- Assist with the development of designs for mechanical systems and components, including model and 2D drawing checking, and assessment of tolerances and tolerance studies.
- Assist in the preparation of procurement documents and specifications
- Assist with hardware procurement, assembly, installation, and testing oversight.
- Work with CAD designers during design and model preparation (including design improvement).
- With input from the technical staff, assist with the generation of technical reports and documents.
- Work in a multinational interdisciplinary project team and responsibility 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.

**Qualifications and Experience:**

- 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 will 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 active and passive knowledge of written and spoken English.

**Work Direction and Interfaces:**

- Report to the ITER Tokamak DDG
- Interact on a daily basis with members of the ITER Magnet Division as well as external organizations.

**Authority/Approval Levels:**

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

**Measures of Effectiveness:**

- Provide efficient and high quality service to the ITER Tokamak DDG and division members
- Establish a good collaboration attitude with all members of the Tokamak department.