

Mechanical Design Section Leader

CEP-041

Reports to Line Manager:	Head of the Design Office Division, Central Engineering and Plant Support Department	Job Code:	CEP-041
Direct Employment:	Not Required	Grade:	P5
Date Written:	April 2009	Date Revised:	

Purpose

To be responsible for the production and the control of all mechanical design related Computer Aided Design (CAD) data under the technical responsibility of the associated Responsible Officers;
To supervise the ITER Design Office's Mechanical Design Section.

china

Major Duties/Responsibilities

eu

india

japan

korea

russia

usa

- Ensures the development, maintenance and checking of the CAD data related to the mechanical design of the Tokamak (ie. vessels, high heat flux, magnets, diagnostics, maintenance & assembly... with emphasis on: CAD structure inside the database, reference geometrical configuration, data coherence, design changes, alternative designs, space reservation & interfaces, preparation of Tender drawings, monitoring & checking of manufacturing and installation studies);
- Ensures high quality standards are maintained for the design processes carried out by the Mechanical Design Section staff members;
- Supervises the Mechanical Design Section (CAD Designers and Design Coordinating Engineers);
- Distributes the allocated resources in relation with the project priorities;
- Negotiates and supervises contracts with external companies in the area of mechanical design;
- Deals with a range of design disciplines such as structures, supports, circuits, robotics, machine assembly & maintenance, interfaces with analysts etc.;
- Contributes to: Design Work Orders, Digital Mock-Up reviews, top level assembly & configuration drawings, Bill-of-Materials, progress meetings, CAD collaboration schemes with the Domestic Agencies, scheduling & resource management, Quality Assurance implementation, processes & improvements, CAD Manual, library & auxiliary Design Office related activities;
- Provides effective leadership for the Section ensuring team members are motivated and constantly developing their skills and experience;
- 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 4-6 years of study after the High School Diploma, in the engineering, Computer Aided Design field or other relevant discipline.

- **Technical experience:**
 - At least 12 years' experience in a managerial position for a Mechanical Design Office in a large multi-disciplinary project performed in an international environment and necessitating the use of remote design collaboration methods;
 - At least 12 years' experience in design work involving an advanced CAD system, including 3 years with CATIA 5;
 - Previous experience in the design of nuclear components, preferably in the fusion field, would be advantageous as would Engineering project experience with complex systems.
- **Project experience:**
 - Basic Project Management experience is required.
- **People Management experience:**
 - Excellent ability to organize and monitor design activities;
 - Capability to lead a team to work towards predefined goals with a high level of autonomy and to produce high quality results which have stood the test of being manufactured successfully would be a distinct advantage.
- **Social skills:**
 - Good communication skills;
 - Ability to work effectively in a multi-cultural environment and to promote team work.
- **Language requirements:**
 - Fluent in English (written and spoken).
- **Computer and IT skills:**
 - Experience working with ENOVIA LCA - VPM5, and more specifically with previous versions of VPM or with other integrated database systems would be advantageous.

Direct Supervisor and Interfaces

- Reports to the Design Office Division Head;
- Interfaces with all involved Departments and Divisions, and in particular:
 - Interacts on a daily basis with the relevant ITER Component Responsible Officers, Integration Responsible Officers and Design Office Section Leaders & Coordinators (infrastructure) aiming at the required level of quality and at an efficient development of the design;
 - Maintains frequent communication with the other ITER Departments and interacts directly with appropriate levels in the ITER Domestic Agencies for matters within his/her areas.

Authority / Approval Levels

This position has authority and approval levels as defined by the Design Office Division Head for his/her scope of work.

Measures of Effectiveness

- Ensures the Mechanical Design Section provides efficient & high quality service to the Project;
- Contributes to the effective management of geometrical interface issues;
- Contributes to the development of the Mechanical Design Section's Staff members' technical capabilities, CAD tools, team spirit, etc.;
- Establishes a collaborative attitude with all involved internal & external actors.