

Plant Assembly Design Coordination Engineer

CEP-113

Reports to Line Manager:	Plant Design Section Leader, Design Office Division, Central Engineering and Plant Support Department	Job Code:	CEP-113
Direct Employment:	Required	Grade:	G5

Purpose

To carry out the Computer-Aided Design (CAD) and maintain associated CAD data and CAD database structures related to the assembly design tasks in the Plant Design Section over the entire lifecycle (from design to machine operation) of the ITER Machine and under the instruction of the relevant Responsible Officer(s).

To supervise the CAD design activities performed by Designers at the ITER Organization and by outside Contributors.

china

eu

india

japan

korea

russia

usa

Major Duties/Responsibilities

- Ensures the quality of the CAD data and CAD database structures related to the plant systems assembly;
- Contributes to the resource distribution of the design team and coordinates design activities performed by the designers;
- Performs design tasks under the guidance of the relevant Responsible Officer;
- Performs coordination and development tasks as Design Coordinator under the guidance of the relevant Responsible Officer(s) and following the instructions of the Plant Design Section Leader;
- Contributes to following-up on the mechanical design (coordination of several Designers; interface analysis & management; data structure & meta-data checking into the database; CAD data change management & tracking; Product Breakdown Structure implementation, etc.);
- Supports the Responsible Officer in the interactions with External Contributors regarding CAD activities;
- Actively contributes to the checking of the CAD data (Cursory and Approved); the remote design collaboration schemes and exchanges of CAD data with ITER Partners (export, import, checking, interactions with the ITER Partners, Suppliers, supporting engineering companies / sub-contractors); the implementation of CAD Work and CAD Data Procedures, CAD Manual, processes and procedures; the highlighting of miss-functioning; the DO library and auxiliary DO-related activities;
- Actively contributes to pilot activities to assess, develop and deploy new software and migration; training; coaching; participation in the development of methodologies; guides and CAD Manual sections and various DO-related tasks;
- 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 3-5 years of study after the High School Diploma, in the Process and/or Mechanical Engineering and/or Computer-Aided Design or other related discipline.
- **Technical experience:**
 - At least 10 years' experience (including experience as Leading Designer) in a Plant and/or Mechanical Design Office in a multi-disciplinary project and preferably performed in a remote design collaboration manner;
 - At least 3 years' experience in the implementation of engineering activities and more specifically working on requirement definitions; conceptual, pre-detailed and detailed studies; definition of complex interface systems; preliminary sizing; contribution to the development of manufacturing specifications; contract monitoring, etc.;
 - Previous experience in the design of complex structures, preferably in fusion and/or nuclear energy and involving large welded and bolted components and structures, support systems, and complex interfaces would be advantageous;
 - Knowledge of mechanical calculations;
 - Excellent ability to organize and monitor design activities;
 - Demonstrated ability to produce high quality results which have stood the test of being manufactured, tested, installed and commissioned successfully.
- **Social Skills:**
 - Ability to work towards predefined goals with a high level of autonomy while sustaining a high level of work pressure;
 - Ability to work effectively in a multi-cultural environment;
 - Good communication skills and the ability to work in a team and to promote team work.
- **Language requirements:**
 - Fluent in English (written and spoken).
- **Computer and IT skills:**
 - At least 5 years' experience in design work involving an advanced CAD system, including 3 years with CATIA 5;
 - Experience with ENOVIA LCA -VPM5 is not essential, though experience with previous versions of VPM or with other integrated database systems would be advantageous.

Direct Supervisor and Interfaces

- Reports to the ITER Design Office Plant Design Section Leader;
- Interacts on a daily basis with the relevant ITER Component Responsible Officers (in charge of the technical solutions), Integration Responsible Officers (in charge of the configuration control), the Design Office Management and Support Team, and Design Coordinators and Designers.

Authority / Approval Levels

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

Measures of Effectiveness

- Successfully provides an efficient and high quality service to the ITER Design Office and effectively contributes to the design development;
- Successfully develops further technical capabilities, flexibility, CAD tool control and team spirit;
- Successfully supports the objectives and interests of the ITER Project;
- Successfully establishes a good collaborative relationship with all involved internal and external organizations.