

TITLE: Design Coordination Engineer for System Processes		JOB CODE: CEP-037
REPORTS TO LINE MANAGER: Plant Design Section Leader, Design Office, Central Engineering and Plant Support Department		
DIRECT EMPLOYMENT: REQUIRED		GRADE: G5
Date Written: February 09	Date Revised:	Date Revised:

Purposes:

To develop the multi-discipline schematics and the 3D plant design layout processes, procedures and software infrastructure in accordance the ITER relevant standards and nuclear engineering practices;

To ensure the multi-discipline schematics and the 3D plant design layout of the ITER Project are defined and performed with the expected quality, performances & efficiency.

Major Duties/Responsibilities:

- Manages the multi-discipline schematic applications, especially for plant design (e.g. conceptual & detailed fluidics diagram, process flow diagrams (PFD), piping & instrumentation diagram (P&ID), electrical diagrams, and Instrumentation & Control (I&C) diagrams for all disciplines), catalogues;
- Manages the 3D digital mock-up (DMU) applications for plant systems for all disciplines (e.g. piping, HVAC, electrical, cable-tray, supports, hangers, penetrations, instrumentation, etc.);
- Defines and maintains the ITER specific processes, conventions, numbering system & development requirements, the development monitoring/coordination and the User side validation;
- Manages the associated software: interfaces (schematics solutions, 3D plant design, engineering database, other software), quality, performances, administration, up-grading, training, coaching, troubleshooting, CAD Manual, testing, interfaces with the Editors;
- Deals with a range of CAD and database solutions in the area of design collaboration, mechanical and plant design as well as simulation, design life-cycle, modelling, drafting, Bill-of-Materials, libraries, identification, naming convention, design changes, document tracking, organization, roles & responsibilities, checking procedures, standards, etc.;
- Contributes to resource management tasks (such as assistance contract supervision) , remote collaboration with the Domestic Agencies and auxiliary DO related activities;
- 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 Engineering, Computer Sciences or other related discipline.

- **Technical experience:**
 - At least 10 years' experience working on plant design process definition, plant design CAD & database related training, coaching, testing and development in a large multi-disciplinary project performed in an international environment and in a remote design collaborative manner;
 - At least 3 years' experience working on engineering processes for the nuclear industry.
- **Project experience:**
 - Experience in international projects would be an advantage.
- **Social Skills:**
 - Demonstrated ability to produce high quality results which have stood the test of being successfully deployed in production;
 - Excellent ability to organize and monitor development activities, good communication skills and capability to work towards predefined goals with a high level of autonomy;
 - Ability to work effectively in a multi-cultural environment;
 - Ability to work in a team and to promote team work.
- **Language requirements:**
 - Fluent in English (written and spoken).
- **Computer and IT skills:**
 - Several years' experience working with advanced CAD systems and dealing with processes and 3D imagery, in addition to managing the associated databases are required;
 - Knowledge of CATIA V5, ENOVIA LCA and IGE-XAO would be an advantage.

Direct Supervisor and Interfaces:

- Reports to the Plant Design Section Leader within the Design Office (DO);
- Interacts on a daily basis with the DO Members including the DO aiming at the required level of quality and at an efficient development of the tools;
- Maintains frequent communication with the other ITER Departments including Design Integration and interacts directly with appropriate levels in the Domestic Agencies for all matters of his/her responsibility.

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:

- Provides efficient and high quality service to the ITER Project and involved users in the areas of plant engineering, software and IT integration;
- Contributes to the development of the Staff's technical capabilities, plant engineering, CAD tools, team spirit, etc.
- Establishes a collaborative attitude with all involved internal & external organizations.