

TITLE: Design Coordination Engineer for Remote Handling		JOB CODE: CEP-047
REPORTS TO LINE MANAGER: Mechanical Design Section Leader, Design Office, Central Engineering and Plant Support Department		
DIRECT EMPLOYMENT: REQUIRED		GRADE: G5
Date Written: February 2009	Date Revised:	Date Revised:

Purpose:

To carry out the Computer-Aided Design (CAD) and maintain associated CAD data and database structures related to the ITER Remote Handling tools over the entire lifecycle (from design to machine operation) under the instruction of the Responsible Officer(s);

To supervise the CAD design activities performed by designers within the ITER Organization and by outside Contributors.

Major Duties/Responsibilities:

- Ensures the quality of the CAD data and CAD database structures related to the ITER Remote Handling tools;
- 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 & development tasks as Design Coordinator under the guidance of the relevant Responsible Officer(s);
- Performs coordination & development tasks as Design Coordinator under the instructions of the Mechanical Design Section Leader, such as: design collaboration, scheduling, software testing, review meetings, 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 a technical field, Mechanical Engineering or other related discipline such as Computer Aided Design.
- **Technical experience:**
 - At least 10 years' experience (including experience as Leading Designer) in a Mechanical Design Office on a multi-disciplinary project and preferably performed in a remote design collaborative manner;
 - At least 3 years' experience in the implementation of engineering activities: requirement definition; 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 Remote Handling tools preferably in the fusion and/or nuclear field, working on Remote Handling simulations and kinematic studies involving large components & structures with complex interfaces would be advantageous;
 - Knowledge of mechanical calculations.
- **Social Skills:**
 - Demonstrated ability to produce high quality results which have stood the test of being manufactured, tested, installed and commissioned successfully is required;
 - Excellent ability to organize and monitor design activities, good communication skills and capability to work towards predefined goals with a high level of autonomy while sustaining a high level of pressure to work under;
 - 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:**
 - 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;
 - Experience with a simulation tool like DELMIA would be advantageous.

Direct Supervisor and Interfaces:

- Reports to the Mechanical Design Section Leader of the ITER Design Office;
- Interacts on a daily basis with the relevant ITER Component Responsible Officers (in charge of the technical solutions), the Integration Responsible Officers (in charge of the configuration control), Design Office Management & Support Team and Design Coordinators & Designers aiming for the required level of quality and efficient design development.

Authority/Approval Levels:

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

Measures of Effectiveness:

- Provides efficient and high quality service to the ITER Design Office;
- Contributes to the effective development of the mechanical design;
- Develops further technical capabilities, flexibility, CAD tool control and team spirit;
- Supports the objectives & interests of the ITER Project;
- Establish a collaborative attitude with all involved internal & external organizations.