

TITLE: Mechanical Design Coordinator		CEP-057
REPORTS TO LINE MANAGER: Leader of Mechanical Design Section; Department of Central Engineering and Plant Support		
GRADE: G5-G6		
Date Written: July 2007	Date Revised:	Date Revised:

Purposes:

- Responsible for the mechanical design of equipment & structures
- Responsible for supervising the design activities performed by other Designers on at least one particular component / system

Major Duties/Responsibilities:

- Performing, under the instruction of the relevant ITER Component Responsible Officers:

Design & solid modelling of mechanical systems, such as (depending on the ITER needs and experience of DESIGN COORDINATOR:

- Assembly equipment (jigs, tools...)
 - Remote maintenance equipment (robots, end-effectors...)
 - Reactor structures & associated supporting systems (for example: vessel, cryostat, thermal shield...)
 - High heat flux components
 - Definition of interfaces
 - Additional heating systems
 - Definition of interfaces, integration studies
 - Development of catalogues items
 - Preparation of drawings, isometrics, Bill-of-Materials
 - Preparation of assembly drawings
 - Design integration tasks (interface management, digital mock-ups, fitting simulation, clash detection report ...)
 - Exchange of CAD data with ITER Partners (export – import – checking)
- Performing coordination & development tasks as Mechanical Design Coordinator:
 - Following up of at least one mechanical component design (interactions with several Designers, data structure in the data base, data & meta-data checking, interface analysis, Product Break Down Structure...)
 - Active contribution to: Design Work Orders and Design Work Checks (model and drawing checking), the preparation of the Design Integration – Design Office meetings, remote design collaboration schemes (interactions with the ITER Partners, Suppliers, supporting engineering companies / sub-contractors...), QA implementation, Design Office processes and improvements, DO library and auxiliary DO related activities.

- Active contribution to pilot activities to assess, develop & deploy new software & migration (CATIA V5, ENOVIA, analysis codes), coaching, participation to the development of methodologies, guides & CAD Manual sections
- He/She is helped in his tasks by a high level of understanding and practice of CATIA V5 mechanical modules, and ENOVIA LCA - EV5.
- 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:

- Higher diploma or certificates in Computer Aided Design or equivalent (such as mechanical engineering).
- A minimum of 10 years experience of responsibility in a Mechanical Design Office in a large multi-disciplinary project performed in an international environment and preferably in a remote design collaboration manner.
- A minimum of 10 years experience of 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.
- Demonstrated ability to produce high quality results which have stood the test of being manufactured successfully would be a distinct advantage.
- Skills: Excellent ability to organize and monitor design activities, good communication skills and capability to work towards predefined goals with a high level of autonomy.
- Previous experience in the design of electromechanical or nuclear components, in particular in the fusion field, would be advantageous, as would experience with complex mechanical systems, engineering projects.
- Language knowledge: Good active and passive knowledge of written and spoken English.

Work Direction and Interfaces:

- Report to the Mechanical Design Section Leader of the ITER Design Office
- Interact 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) and associated Design Coordinator: & Designers aiming at the required level of quality and at an efficient development of the design.

Authority/Approval Levels:

- Has authority and approval levels generally defined by the Design Office Director for his/her scope of work.

Measures of Effectiveness:

- Provide an efficient and high quality service to the ITER Design Office.
- Contribute to an effective development of the mechanical design in a coordinated manner
- Develop further: technical capabilities, flexibility, CAD tool control and team spirit.
- Support the objectives & interests of the ITER Project
- Establish a good collaboration attitude with all involved internal & external organizations.