

IO1572 CAD Technician CIO-026

General information

Job category	Standard
Status	Published
Department	CIO/ Central Integration Office
Division	CIO / Design Office Division
Section	CIO / DO / CAD Section

Job description

Main job	Computer Science - Computer Aided Design
Title of the position	CAD Technician CIO-026
Job family	Technician - 2
Grade	G3
Direct employment	Required
Purpose	<p>- To execute design and engineering tasks on a range of mechanical & plant systems under the supervision of the Design Office (DO) CAD Section Leader and the technical instructions from Plant Breakdown Structure (PBS) Responsible Officers;</p> <p>- To apply best industrial practices in the area of Computer Aided Design (CAD) manufacture-ability, design integration of equipment, circuits & interfaces, installation, commissioning and maintainability;</p> <p>- To support design activities performed in a remote design collaboration manner;</p> <p>- To support design activities performed in the course of the manufacture through change requests;</p> <p>- To implement CAD Quality Assurance (QA) and Quality Control (QC) requirements and measures.</p> <p>Main initial design / activities focused on: Toroidal Field Coil Structure & windings, interfaces, installation and maintainability.</p>
Main duties / Responsibilities	<p>Supports PBS Responsible Officers in the execution of technical studies, tolerance analysis studies, impacts and implementation of changes requests from suppliers and design reviews involving interfaces, detailed assembly models and review of equipment assembly procedures, configuration models, for mechanical or/and plant equipment/systems and installation;</p> <p>Supports PBS Responsible Officers is the procurement follow up via assessing efficiently design change requests and non-conformities; checking manufacturing drawings;</p> <p>Produces 3D models & drawings (parts & assemblies), layout drawings, bills of materials, support and interface drawings, 3D simulations, tagging and other CAD data to support the final design, the procurement, the pre-assembly, the installation and the commissioning of the equipment;</p> <p>Alerts on new issues and any deviation;</p> <p>Supports integration, interface clarification and solving of design issues;</p> <p>Develops / converts files for dedicated analysis;</p> <p>Supports CAD design Work Packages performed in a remote design collaboration manner;</p> <p>Updates and maintains CAD data and related databases;</p> <p>Supports design activities associated to: standardization and catalogues, CAD data exchanges, maintenance of the context and configuration branches;</p> <p>Performs CAD Quality Control including CAD data cursory check, collision check, coherence checking between schematics and 3D, compliance with project specifications (scope of work, design parameters & codes), best industrial practices and CAD QA/QC;</p> <p>Provides accurate DO monthly reports;</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan;</p> <p>May be requested to belong to any project team dealing with above activities and perform other duties upon management request;</p> <p>Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p>

Measures of effectiveness	Under supervision of a Technical Responsible Officer, reports to the CAD Section Leader; Works under the technical instructions of Plant Breakdown Structure Responsible Officers; Acts as an interface with other internal and external resources for the final Toroidal Field design, the procurements, the pre-assembly and the installation of the equipment;
	In response to requests from the Director-General and/or Central Integration Office Head, or proactively, informs the DG/CIO Head of any important and urgent issues that cannot be handled by the concerned line management and may jeopardize the achievement of the Project's objectives.
	Provides accurate technical input to effectively support the equipment design, procurement, installation and testing within the defined time schedule; Produces CAD deliverables in a timely manner; Produces the required reports on time and in accordance with a high quality standard; Performs multi-tasking while adjusting quickly to new systems, issues and working environment.
Project Construction Phase	

Applicant criteria

Technical experience/knowledge	Level of study	At least Post-Secondary Degree or equivalent
	Diploma	Technical Eng. (mechanics, CAD) field or other
	Level of experience	At least 3 years
		At least 3 years' experience in a DO covering most of the following topics is required:
		o Design integration Mechanical (incl. interface tolerances)
		o Materials and welding / inspection processes
		o Non-destructive testing, production quality control
		o Installation processes, tooling & fabrication
		o Assembly sequences, transport/handling, storage
Social skills		o Geometrical configuration control & integration
		o Knowledge in nuclear environment & requirements
		o Knowledge in safety
		Experience in functional and dimensional tolerances
		Experience in 3D tolerance studies would be an advantage;
		Ability to control the deliverables from multi-national subcontractors with regards to technical requirements and CAD quality;
		Experience in design support activities would be an advantage: CAD data exchanges, catalogue development and maintenance, software administration and support, CAD QA/QC.
		Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
		Experience in multi-national projects, preferably in fusion and/or nuclear energy involving large components and structures, support systems, high-power circuits & buildings and complex interfaces would be an advantage;
General skills		Knowledge of MS Office standard (Word, Excel, Visio, PowerPoint, and Outlook) is required;
		Knowledge of Adobe Reader is required
		At least 3 years' experience in design work involving an advanced CAD system, including CATIA V5, is required;
Languages		The experience with CATIA Equipment & Systems, advanced CAD data-bases like ENOVIA V5, advanced process/schematics software like Visio-based See-System-Design and AVEVA/PDMS would be an advantage.
Specific skills		English (Fluent)
		Computer Aided Design