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## JOB DETAIL

Ref. IO1574 - 8/24/2015

### CAD Technician CIO-028

<b>Main job</b>	Computer Aided Design
<b>Department</b>	CIO/ Central Integration Office
<b>Division</b>	CIO / Design Office Division
<b>Section</b>	CIO / DO / CAD Section
<b>Job Family</b>	Technician - 2
<b>Application Deadline (MM/DD/YYYY)</b>	09/20/2015
<b>Grade</b>	G3
<b>Direct employment</b>	Required
<b>Purpose</b>	<p>- To execute design and engineering tasks on a range of plant &amp; mechanical systems under the supervision of the 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 &amp; 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: cable-trays, piping, interfaces &amp; installation tools &amp; sequences.</p> <p>– Supports PBS Responsible Officers in the execution of technical studies, change requests and design reviews involving multi-discipline schematics, configuration models, detailed models and drawings for plant or/and mechanical equipment/systems and installation;</p> <p>– Supports PBS Responsible Officers in the procurement follow-up via the contribution to the fast and efficient assessment of design change requests and non-conformities, and to the checking of manufacturing drawings;</p>
<b>Main duties / Responsibilities</b>	<p>– Produces General Arrangements, 3D models &amp; drawings (parts &amp; assemblies), layout drawings, room bookings, bills of materials, support and interface drawings, isometrics, 3D simulations, tagging and other CAD data to support the final design, the procurement, the pre-assembly, the installation and the commissioning of the equipments;</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 &amp; codes), best industry practices and CAD Manual</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</p>

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	<p>Strategic Management Plan;</p> <ul style="list-style-type: none"><li>– May be requested to belong to any project team dealing with above activities and perform other duties upon management request;</li><li>– Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</li></ul>
Measures of effectiveness	<ul style="list-style-type: none"><li>• Under supervision of a Technical Responsible Officer, reports to the CAD Section Leader;</li><li>• Works under the technical instructions of Plant Breakdown Structure Responsible Officers;</li><li>• Acts as an interface with other internal and external resources for the final design, the procurements, the pre-assembly and the installation of the equipment;</li><li>• 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.</li><li>• Provides accurate technical input to effectively support the equipment design, procurement, installation and testing within the defined time schedule;</li><li>• Produces CAD deliverables in a timely manner with a high quality standard;</li><li>• Produces the required reports on time and in accordance with a high quality standard;</li><li>• Performs multi-tasking while adjusting quickly to new systems, issues and working environments.</li></ul>
	<p>ID SAP: 50003034 Project Construction Phase</p>
Level of study	At least Post-Secondary Degree or equivalent
Diploma	Technical Engineering field or other
Level of experience	At least 3 years
Technical experience/knowledge	<ul style="list-style-type: none"><li>– Education in a Technical Engineering field (electro-mechanical, civil &amp; industrial buildings, fluidic processes, power-supply &amp; control, Quality Management, and CAD) or other;</li><li>– At least 3 years' experience in a DO covering at least 5 of the following topics is required:<ul style="list-style-type: none"><li>o Design integration – Plant</li><li>o Cable tray layout, interfaces and detailed design</li><li>o Piping &amp; support layout &amp; interfaces and detailed design</li><li>o Plant system installation such as tools, interfaces &amp; sequencing</li><li>o Checking of manufacturing CAD data/drawings</li><li>o Geometrical configuration control &amp; integration</li><li>o Knowledge in power supply technology &amp; requirements</li><li>o Knowledge in nuclear environment &amp; requirements</li></ul></li><li>– Ability to control the deliverables from multi-national subcontractors with regards to technical requirements and CAD quality;</li><li>– Experience in design support activities would be an advantage: CAD data exchanges, catalogue development and maintenance, software administration and support, CAD QA &amp; QC.</li></ul>
Social skills	Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit
Specific skills	Computer Aided Design
General skills	<ul style="list-style-type: none"><li>– Experience in functional and dimensional tolerances</li><li>– Experience in multi-national projects, preferably in fusion and/or nuclear energy involving large components and structures, support systems, high-power circuits &amp; buildings and complex interfaces would be an advantage;</li><li>– Experience in a remote design collaboration environment would be an advantage;</li><li>– Experience in 3D tolerance studies would be an advantage;</li><li>– Knowledge of MS Office standard (Word, Excel, Visio, PowerPoint, and Outlook) is required;</li><li>– Knowledge of Adobe Reader is required</li><li>– At least 3 years' experience in 3D design work involving an advanced CAD system, including CATIA V5 Mechanical and Equipment &amp; Systems.</li><li>– The experience with advanced CAD data-bases like ENOVIA V5 and advanced process/schematics software like</li></ul>

Visio-based See-System-Design and AVEVA/PDMS would be an advantage.

Languages

English (Fluent)

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