

ITER 국제기구 공모 직위 직무기술서 (제126차)

○ 7개 직위

구분	분야	소속	직위	Job No.	등급
①	플랜트엔지니어링 (PED)	Cooling System Engineering Division Cryogenic System Section	Cryogenic Process Engineer	PED-009	P4
②	토카막엔지니어링 (TED)	Vessel Division Cryostat & VVPSS Section	Cryostat Engineer	TED-022	P4
③	중앙통합 (CIO)	Central Integration Office Design Integration Section/Division	Construction & Integration Engineer	CIO-009	P3
④			Tolerance Studies Engineer	CIO-008	P2
⑤		Design Office Division CAD Section	CAD Technician	CIO-026	G3
⑥				CIO-027	
⑦				CIO-028	

IO1571 Cryogenic Process Engineer PED-009

General information

Job category	Standard
Status	Published
Department	PED / Plant Engineering Department
Division	PED / Cooling Systems Engineering Division
Section	PED / CSED / Cryogenic System Section

Job description

Main job	Engineering - Cryogenics
Title of the position	Cryogenic Process Engineer PED-009
Job family	Coordinating Engineer
Grade	P4
Direct employment	Not required
Purpose	<p>To ensure the integration, design, layout, construction and operation of the ITER Cryogenic System;</p> <p>To identify and detail the dedicated hardwired interlocks for the ITER cryogenic system's safe operation;</p> <p>To monitor the schedule to build the Cryogenic System and the programs for testing and commissioning the cryogenic equipment.</p> <p>Develops and reviews the Process and Instrumentation diagram in order to assess the process controls and required instrumentation;</p> <p>Ensures that requirements of the technical specifications are implemented by contractors and well justified;</p> <p>Ensures that performance of the cryogenic system is achieved during testing and commissioning phases;</p> <p>Develops and reviews the preparation of technical specifications for the cryoplant, cryolines and cryodistribution systems;</p> <p>Develops and reviews the process and design interfaces of the cryogenic components and subsystems;</p> <p>Designs the dedicated hardwired interlocks necessary for ITER cryogenic system's safe operation and shutdown sequences, in respect with Quality Assurance and other IO requirements;</p> <p>Develops and implements the required testing and commissioning program for the instrumentation and process control system;</p> <p>Develops and maintains the operation and maintenance procedures as well as spare requirements;</p> <p>Performs the training of the operators of the cryogenic system;</p> <p>Writes and reviews the technical specifications and baseline documentation for the ITER cryogenic system;</p> <p>Performs the required analysis to validate and improve the cryogenic system flexibility and reliability to operate over a full range of plasma scenarios;</p> <p>Prepares, revises and maintains the schedule to build the cryogenic system as well as the testing and commissioning program;</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan & upon management request;</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>
Main duties / Responsibilities	<p>Reports to the Cryogenic System Section Leader;</p> <p>Acts as an interface between designers of the magnets, the Tokamak 80K thermal shields, the cryo-vacuum pumps and the buildings to support integration;</p> <p>In response to requests from the Director-General and/or Head of Plant Engineering</p>

Measures of effectiveness	Department (PED), or proactively, informs the DG/ Head of PED 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.
	Manages effectively interfaces between the cryogenic system and cryogenic users;
	Manages effectively plans for procurement, preparing installation, tests and commissioning within the defined schedule;
	Maintains effective communication with all parties delivering subsystems.
	ID SAP: 50000214
	Project Construction Phase

Applicant criteria

Level of study	Master or equivalent degree
Diploma	Cryogenics or Process Engineering field
Level of experience	At least 10 years
Technical experience/knowledge	Excellent knowledge of industrially proven cryogenic equipment in world market and associated R&D for specific applications;
	A PhD in the related fields will be considered as an advantage;
	Good knowledge of factory acceptance tests and commissioning of complex equipment.
	Experience in the development, design, procurement and commissioning of large cryoplant and cryodistribution systems for fusion or accelerator applications;
	Experience in process engineering and analysis of operating modes for large cryogenic systems;
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	Experience in thermohydraulic analysis and numerical codes; Experience working with the design code and standards.
Languages	English (Fluent)

IO1575 Cryostat Engineer TED-022

General information

Job category	Standard
Status	Published
Department	TED / Tokamak Engineering Department
Division	TED / Vessel Division
Section	TED / VV / Cryostat & VVPSS Section

Job description

Main job	Engineering - Cryogenics
Title of the position	Cryostat Engineer TED-022
Job family	Coordinating Engineer
Grade	P4
Direct employment	Not required
Purpose	<p>To complete the design of the Cryostat including some components or interfaces of this system.</p> <p>To ensure procurement of the ITER Cryostat;</p> <p>To ensure coordination of all Cryostat interfaces with other ITER components and building, including penetrations and supports;</p> <p>To monitor manufacture follow-up, transportation, assembly, installation, and testing, commissioning activities of the Cryostat;</p> <p>To contribute to the development and procurement of the Vacuum Vessel Pressure Suppression System (VVPSS).</p>
Main duties / Responsibilities	<p>Is responsible for follow-up of the fabrication, assembly and commissioning of the Cryostat;</p> <p>Provides support to the detailed design, manufacture and assembly of the Cryostat;</p> <p>Reviews the manufacturing documents with a focus to the safety aspects of the Cryostat;</p> <p>Reviews the manufacturing design, construction and assembly documentation of the Cryostat, including materials, factory manufacturing, vacuum leak testing and final integrated leak testing of the Cryostat;</p> <p>Develops and establishes the procurement arrangement and technical specifications for the Cryostat with the Domestic Agency (DA);</p> <p>Provides support in the licensing activities for safety design and assessment of the safety related functions, including technical requirements such as codes and standards;</p> <p>Is responsible for the consistency of the Cryostat construction planning in relation to the ITER construction, commissioning and operation plan;</p> <p>Works in close contact with the ITER groups/divisions in charge of the ITER components and buildings interfaced with the Cryostat and design integration for on-site installation and assembly;</p> <p>Performs other duties in support of the project schedule, as described in the Detailed Work Breakdown Structure Schedule or Strategic Management Plan;</p> <p>May be requested to be part of any of the project team dealing with the 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> <p>Reports to the Cryostat & VVPSS Section Leader;</p> <p>Works in close contact with DAs and the ITER sections/divisions in charge of the ITER components and buildings interfaced with the Cryostat and design integration for on-site installation and assembly;</p> <p>Acts as an interface between all the ITER systems within the ITER organization, as well as interface with the relevant DA;</p> <p>In response to requests from the Director-General and/or Head of the Tokamak Engineering Department (TED), proactively informs the DG/ TED 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.</p> <p>Successfully generates and maintains coherent, comprehensive, and understandable design documentation for the Cryostat;</p>

Measures of effectiveness	<p>Manages the Cryostat interfaces design with other tokamak systems;</p> <p>Manages the oversight of the Cryostat fabrication and coordination and communication with the DA;</p> <p>Completes procurement activities of the Cryostat in a timely manner and within defined costs;</p> <p>Initiative to understanding the design and manufacturing at the IO and effective coordination with the IO-Central Team and DA staff;</p> <p>Successfully maintains effective communications within the ITER Organization.</p> <p>SAP ID: 50000194</p> <p>Project Construction Phase</p>
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Applicant criteria

Level of study	At least Master's Degree or equivalent
Diploma	Mechanical Engineering field or other
Level of experience	At least 10 years
Technical experience/knowledge	<p>Good knowledge in high vacuum aspects of manufacturing of mechanical components, codes & standards and quality assurance is highly desirable;</p> <p>At least 10 years relevant experience in design, construction and installation of large pressure vessels/vacuum vessels and/or nuclear devices;</p> <p>Experience in fabrication technology (forming, welding and non-destructive examination) of large welded structures and familiarity with conventional pressure vessel codes, such as ASME;</p> <p>Basic experience on design and technical requirements of the ITER mechanical components and tokamak assembly would be an advantage;</p> <p>Good Project Management experience such as planning, scheduling and progress reporting expertise is required;</p> <p>Experience in providing technical guidance, coordinating and monitoring activities.</p>
	Social skills
	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
	General skills
	Ability to communicate clearly and write technical reports and specifications in English.
Languages	English (Fluent)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)

IO1569 Construction & Integration Engineer CIO-009

General information

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

Job description

Main job	Engineering - Design
Title of the position	Construction & Integration Engineer CIO-009
Job family	Engineer - 2
Grade	P3
Direct employment	Not required
Purpose	<p>To provide assistance to Design Integration in the area of Tokamak and in-pit. To support to the Area Manager to anticipate and solve potential issues related to the installation of major components and systems of the machine.</p> <p>Performs integration assessment of the interface situations between the components and systems (functional and physical); Monitors and controls the manufacturing of main Tokamak components in accordance to interface definition and functional tolerance requirements; Assesses assembly processes in an integrated manner for mechanical components on the basis of construction process documents; Supports the development of the assembly procurement strategy and the issuing of technical specifications; Ensures reliable control processes like design integration reviews, virtual reality meetings or model approval process;</p> <p>Assesses component tolerances on mechanical components on the basis of functional tolerance drawings in support to Deviation Request and Project Change Request; Ensures consistency between Process Flow Diagram/ Process and Instrumentation diagrams and components layout in the digital mock-up; Follows major ITER milestones and provides forecast and planning for the Tokamak Design Integration work, and also regular reports on group performance according to defined schedule; Manages volume reservations inside Cryostat (configuration management process) under consideration of special needs for man access and tooling during installation and maintenance; Supporting of meeting preparation and post processes (writing actions, reports, CAD model approval forms (CMAF) and other configuration management related documentation); Performs other duties in support of the project schedule as described in the Detailed Work Schedule or Strategic Management Plan; May be requested to be part of any of the project team dealing with the above activities and perform other duties upon management request; Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p>
Main duties / Responsibilities	<p>Under the coordination of the Area Manager for Tokamak & in-pit, reports to the Design Integration Section / Division Head.</p> <p>Interfaces closely with the Construction Department, Tokamak Engineering Department and other ITER Departments and Project Teams, to ensure interface and requirements consistency; Interacts with the technical responsible persons for the components within IO and Domestic Agencies for all matters relating to Tokamak Integration;</p> <p>In response to requests from the Director-General and/or Integration Office (CIO) 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.</p> <p>Develops/reviews appropriate and understandable Construction Process documents compliant with Assembly processes and requirements;</p>

Measures of effectiveness	Review and Complete Construction work packages in an exhaustive manner with respect to interface definition;
	Enhances in an exhaustive manner the definition of the Tokamak configuration (e.g. all tokamak volumes and interfaces between systems);
	Complete Assembly procurement activities in a timely manner;
	Manages and resolves interface issues following deviation requests or non-conformity reports during the whole construction and commissioning phase of the Tokamak.
	Project Construction Phase

Applicant criteria

Technical experience/knowledge	Level of study	Master or equivalent degree
	Diploma	Mechanical Engineering field or other
	Level of experience	At least 8 years
		Knowledge of basic mechanical & piping assembly technologies; Knowledge about rules of Configuration Control management;
		At least 8 years' experience covering the following topics: o Integration of large projects scientific and/or nuclear projects, involving large components and structures would be an advantage; Evaluation of interfaces, creation of related interface actions and follow up until resolution; o Coordination between different interface partners and maintain the communication; o Specific design, construction and assembly aspects of Tokamak systems should be highly advantageous.
	Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
	General skills	- Excellent capability to interact with experts from different disciplines; - Organizational skills and autonomy for his/her of responsibility; - Good knowledge with CATIA V5 or similar CAD system; - Excellent knowledge of the Microsoft Office package; - Familiarity with schedule planning tools.
	Languages	English (Fluent)

IO1568 Tolerance Studies Engineer CIO-008

General information

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

Job description

Main job	Engineering - Design
Title of the position	Tolerance Studies Engineer CIO-008
Job family	Engineer - 1
Grade	P2
Direct employment	Not required
Purpose	<p>To perform Design Integration activities, including 3D Tolerance Variation Studies.</p> <p>Performs 3D dimensional variation studies to support the integration of mechanical and plant systems;</p> <p>Updates, optimizes and manages the 3DCS Tokamak Dimensional Variation Model;</p> <p>Performs traceability assessment between model inputs and functional/interface requirements, part tolerances and assembly processes;</p> <p>Contributes to the identification, definition and review of functional tolerance features (callouts and datums);</p> <p>Supports Design Integration in the assessment of non-compliances and integration risk issues for mechanical and plant systems;</p> <p>Performs impact and tolerance mitigation studies according to Deviation Requests and Non-Conformities;</p> <p>Supports Design Integration to prepare tolerance assessment reports;</p> <p>Performs clash detection studies;</p> <p>Supports Design Integration to solve problems related to integration processes;</p> <p>Provides support to organize ITER technical meetings;</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Schedule or Strategic Management Plan;</p>
Main duties / Responsibilities	<p>May be requested to be part of any of the project team dealing with the 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> <p>Under the supervision of the Project Coordinator for Tolerance Studies, reports to the Design Integration Section/Division Head;</p> <p>Interfaces closely with the Construction Department, Tokamak Engineering Department and other ITER Departments, to ensure interface and tolerance-positioning issues are identified and resolved in a timely manner;</p> <p>Interacts with the Project Teams and Domestic Agencies for all matters relating to Tokamak Integration;</p> <p>In response to requests from the Director-General and/or Central Integration Office (CIO) 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.</p>
Measures of effectiveness	<p>Enhances and manages in a full exhaustive manner the definition of the Tokamak Tolerance Model (e.g. all major defined tolerance studies completed);</p> <p>Develops appropriate and understandable Tolerance reports highlighting specific CIO requirements for the success of the Project ;</p> <p>Manages and resolves interface tolerance issues following deviation requests or non-conformity reports during the construction phase of the Tokamak with avoiding risk of assembly/operation non-compliance;</p> <p>Manages the Tokamak as-built configuration with respect to construction intermediate and final</p>

dimensions, together with assembly final positioning of components;
Completes Tolerance studies during construction and Assembly phase in a timely manner.

Project Construction Phase

Applicant criteria

Level of study	At least Master's Degree or equivalent
Diploma	Mechanical Engineering field or other
Level of experience	At least 5 years
Technical experience/knowledge	<p>At least 5 years' experience covering the following topics:</p> <ul style="list-style-type: none">- Tolerance modelling and analysis of complex 3D systems using dimensional variation software in combination with CATIA;- Geometric Dimensioning & Tolerancing, based on ISO or ASME standards;- Statistical data management, including processing of large amount of data using Excel;- Specific design, construction and assembly aspects of Tokamak systems should be highly advantageous;- Integration of large projects scientific and/or nuclear projects, involving large mechanical components and structures would be an advantage.
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	<p>Excellent capability to interact with experts from different disciplines;</p> <p>Proficiency in 3D CAD software & CATIA V5;</p> <p>Good command of the Microsoft Office package.</p>
Languages	English (Fluent)

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: <ul style="list-style-type: none"> 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 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.
	Social skills	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; 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.
	Languages	English (Fluent)
	Specific skills	Computer Aided Design

IO1573 CAD Technician CIO-027

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-027
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 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: In-Vessel Coil System, 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 speedily and efficiently design change requests and non-conformities; checking manufacturing drawings;</p> <p>Produces general arrangements, 3D models & drawings, 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 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 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 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 SAP Id: 50003034

Applicant criteria

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
Technical experience/knowledge	At least 3 years' experience in a Design Office covering at least 5 of the following topics is required: <ul style="list-style-type: none"> o Design integration Mechanical (incl. interface tolerances) o Materials and welding / inspection processes o Non-destructive testing, production quality control o Checking of manufacturing CAD data/drawings o Mechanical structure & support design & fabrication o Magnet system design & fabrication o Geometrical configuration control & integration o Knowledge in vacuum technology & requirements o Knowledge in nuclear environment & requirements o Knowledge on supports (seismic, expansions, EP)
	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.
	Social skills
	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	Experience in functional and dimensional tolerances; 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; Experience in a remote design collaboration environment would be an advantage; Experience in 3D tolerance studies would be an advantage;
	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.
	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.
Languages	English (Fluent)
Specific skills	Computer Aided Design

IO1574 CAD Technician CIO-028

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-028
Job family	Technician - 2
Grade	G3
Direct employment	Required
Purpose	<p>- To execute design and engineering tasks on a range of plant & 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 & 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 & installation tools & sequences.</p>
Main duties / Responsibilities	<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> <p>Produces General Arrangements, 3D models & drawings (parts & 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 & 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 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 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 with a high quality standard; 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 environments.
	ID SAP: 50003034 Project Construction Phase

Applicant criteria

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	Education in a Technical Engineering field (electro-mechanical, civil & industrial buildings, fluidic processes, power-supply & control, Quality Management, and CAD) or other;
	At least 3 years' experience in a DO covering at least 5 of the following topics is required: <ul style="list-style-type: none"> o Design integration Plant o Cable tray layout, interfaces and detailed design o Piping & support layout & interfaces and detailed design o Plant system installation such as tools, interfaces & sequencing o Checking of manufacturing CAD data/drawings o Geometrical configuration control & integration o Knowledge in power supply technology & requirements o Knowledge in nuclear environment & requirements
	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.
	Social skills Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	Experience in functional and dimensional tolerances 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; Experience in a remote design collaboration environment would be an advantage; Experience in 3D tolerance studies would be an advantage;
	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 3D design work involving an advanced CAD system, including CATIA V5 Mechanical and Equipment & Systems.
	The experience with advanced CAD data-bases like ENOVIA V5 and advanced process/schematics software like Visio-based See-System-Design and AVEVA/PDMS would be an advantage.
Languages	English (Fluent)
Specific skills	Computer Aided Design