

ITER 국제기구 공모 직위 직무기술서 (제222차)

○ 4개 직위

구분	분야	소속	직위	Job No.	등급
①	건설 (CST)	Construction Department Tokamak Complex Section/Division	Construction Preparation Engineer	CST-080	P4
②		Tokamak Assembly Division Assembly Support Section	Assembly Metrology Engineer	CST-077	P3
③		Construction Department Construction Management Division	Systems and Material Coordinator	CST-071	P2
④	사무총장실 (DG)	Director-General Quality Assurance & Assessment Division	Quality Assurance Engineer	QAA-010	G6

IO1907 Construction Preparation Engineer - CST-080

General information

Job category	Standard
Status	Published
Department	CST / Construction Department
Division	CST / Tokamak Complex Section/Division

Job description

Main job	Engineering - Construction
Title of the position	Construction Preparation Engineer - CST-080
Job family	Coordinating Engineer
Grade	P4
Direct employment	Not required
Purpose	<p>To prepare, plan, coordinate and implement Technical Work Packages in support of the planning and installation execution of the ITER Organization in all plant systems fabrication, installation and handover for buildings of the ITER Site;</p> <p>To develop and elaborate the strategies and solutions necessary to define, validate, execute and control the installation of the plant systems, including the preparation and implementation of resource-loaded plans for the work, and the coordination of the resources assigned to support the work; promoting compliance of the Tokamak Complex construction execution activities with the ITER Safety Requirements, the Quality Assurance (QA) Program, Configuration Management Requirements for Nuclear Facilities, Procurement Procedures and cost-containment objectives.</p>
Main duties / Responsibilities	<ul style="list-style-type: none">-Participates in the evaluation of the engineering designs of the components and plant systems located in Buildings of the ITER Site;-Provides inputs on engineering work scope completion, installation methods & requirements and construction execution sequence / activities to the Construction Management as Agent (CMA), appropriate Plant Breakdown Structure (PBS) Technical Responsible Officer (TRO) and system designers/engineers;-Monitors work progress in accordance with ITER procedures to establish effective Earned Value Measurement (EVM);-Reviews and develops concepts with the CMA and PBS TRO for installing, controlling and certifying the Tokamak Complex components design and systems installation constructability & sequence;-Identifies potential safety, quality, or technical issues using the project Request for Information (RFI) & Tender Query (TQ) tools for design and construction activities and manages the resolution of each;-Identifies the methods required to ensure the safe, successful and timely installation of Tokamak Complex systems, in collaboration with the CMA & PBS TROs;-Identifies developments and documents the installation scope, Construction Process Description (CPD), and implements the most appropriate sourcing solution, in close collaboration with CMA, PBS TRO & Construction Management Division (CMG);-Assists the Procurement & Contracts Division in the management of tender, contractor & installation contracts;-Elaborates consistent approaches to installation and maintenance, in collaboration with the CMA & PBS system designers;-May participate with Quality & PBS TRO in the monitoring of the manufacturing and acceptance of components and systems;-Maintains close coordination and shares all resource information with the Construction Team for Tokamak Assembly (CTTA) and the Construction Team for Plant Installation (CTPI);-May be required to work outside ITER Organization reference working hours, including nights, weekends and public holidays;-Implements the technical control of the Protection Important Activities, as well as their propagation to the entire supply chain;-May be requested to be part of any of the project/construction teams and to perform other duties;-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety

Measures of effectiveness	Program, QA Program, values and ethics.
	<ul style="list-style-type: none"> -Reports to the Tokamak Complex Section/Division Head; -Interfaces directly with all Departments of the ITER Organization i.e.(IO, the CMA and associated Craft Personnel); -In response to requests from the Director-General (DG) and/or the Director for Construction Department (CST), or proactively, informs the DG/Director for CST 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.
	<ul style="list-style-type: none"> -Proposes and implements efficient strategy and method to define, validate, execute and control the installation of the plant systems within the defined cost, quality and schedule; -Resolves timely identified potential safety, quality, or technical issues; -Generates and maintains coherent, comprehensive, and understandable documentation; -Maintains effective communications within the IO, CMA and Tokamak Complex Systems PBS TRO; -Complies with the ITER QA program and safety requirements.
Project Construction Phase	

Applicant criteria

Level of study	Master or equivalent degree
Diploma	Civil, Electrical / Mechanical Engineering field
Level of experience	At least 10 years
Technical experience/knowledge	<ul style="list-style-type: none"> -At least 10 years' recognized professional experience of installation and assembly of large scale industrial plants, a number of which to have high constructed values; -Professional experience in fusion or research projects is considered as an advantage; -Experience in procurement, tendering and contract administration(detailed knowledge of contract forms, their applications and administration would be a strong advantage); -Experience at all stages of projects from Tender to Handover; writing clear and concise reports; -Experience in international projects.
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	<ul style="list-style-type: none"> -Proactive, with drive and initiative; -Ability to facilitate dialogue with a wide variety of contributors and stakeholders; -Ability to adjust communication content and style to deliver messages; -Ability to persist in the face of challenges to meet deadlines with high standards; -Ability to model high standards of team mindset, trust, excellence, loyalty and integrity.
Languages	English (Fluent)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	<ul style="list-style-type: none"> -Proficient command of the Microsoft Office packages; -Knowledge of software types usually used within a multidiscipline project environment computer aided design, scheduling software, estimating software, etc.

IO1908 Assembly Metrology Engineer - CST-077

General information

Job category	Standard
Status	Published
Department	CST / Construction Department
Division	CST / Tokamak Assembly Division
Section	CST/TAD/Assembly Support Section

Job description

Main job	Engineering - Metrology
Title of the position	Assembly Metrology Engineer - CST-077
Job family	Engineer - 2
Grade	P3
Direct employment	Not required
Purpose	<p>To develop metrology strategies, solutions and resources loaded for the assembly.</p> <p>To provide metrology and alignment expertise in support of ITER construction and the qualification of its: constituent components, assemblies and sub-systems.</p>
Main duties / Responsibilities	<ul style="list-style-type: none">-Reviews metrology procedures, dimensional inspection plans and Manufacturing inspection plans to ensure compliance with the ITER Dimensional Metrology Handbook;-Ensures the development and the elaboration of metrology strategies and solutions necessary to efficiently define, validate, execute and control the assembly of machine components and assemblies;-Prepares and implements resources loaded plans for alignment and metrology activities and coordinates the resources assigned to support the work;-Reviews incoming metrology data relating to key machine components to validate compliance with technical specifications;-Assists in the coordination of the Alignment & Metrology Support Framework contracts;-Carries out surveillance of construction activities to ensure consistent approaches to metrology tasks in collaboration with system designers;-Prepares technical specifications for the procurement of metrology equipment and services through Task Orders within Framework Contracts;-Interfaces closely with the Design Integration Team to ensure full traceability of data is maintained through the supply chain and construction activities;-Provides assistance and guidance in the application of metrology techniques to Technical Departments within the project;-Establishes and maintains data management and analysis protocols;-Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan;-May be requested to be part of any of the project team and perform other duties upon management request;-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, quality policy, values and ethics. <p>Special notice: May be requested to work on beryllium-containing components. In this case, you will be required to follow the established ITER Beryllium Management Program for working safely with beryllium. Full training and support will be provided by the ITER Organization;</p> <ul style="list-style-type: none">-Reports to Assembly Support Section Leader;-Acts as an interface between the Tokamak Assembly Division, Design Integration and other Technical Departments requiring alignment and metrology support;-In response to requests from the Director-General and/or Construction Department (CST) Head, or proactively, informs the DG/CST 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.
Measures of effectiveness	-Establishes and implements effective metrology strategy within the defined resources loaded

	<p>cost and schedule;</p> <ul style="list-style-type: none"> -Communicates efficiently with other sections to provide effective metrology solutions; -Produces concise metrology reports easily understood by all interested parties and maintains an accurate data base; -Establishes efficient analyses processes within 3D metrology software; -Maintains cost, quality and schedule requirements for tasks under their control.
	Project Construction Phase

Applicant criteria

Level of study	Master or equivalent degree
Diploma	Engineering
Level of experience	At least 8 years
Technical experience/knowledge	<p>-Extensive experience in similar jobs (involving similar work responsibilities) and/or additional training certificates in relevant domains may be considered a reasonable substitute for the required educational degree.</p> <p>-At least 8 years' experience in the application of metrology techniques on machined and fabricated components and their precise alignment within a complex engineering / scientific large volume configuration;</p> <p>-Experience in the design of survey networks and reference datum system for large volume metrology applications, their measurement to sub mm accuracy and the determination of the associated measurement uncertainty;</p> <p>-Experience in engineering design with a good understanding on Geometrical Dimensioning and Tolerancing (GD&T);</p> <p>-Demonstrated ability to develop innovative solutions to complex engineering problems</p>
Social skills	<p>Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit</p> <p>-Proficient in the use of metrology software for dimensional inspection and analysis, specific experience with Spatial Analyzer and Polyworks will be an asset;</p> <p>-Experienced in the application of metrology instruments such as laser trackers, scanners, measurement arms, photogrammetry</p>
General skills	<p>-Ability to adjust communication content and style to deliver messages;</p> <p>-Ability to persist in the face of challenges to meet deadlines with high standards;</p> <p>-Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.</p>
Languages	English (Fluent)
Specific skills	<p>CATIA, Computer Aided Design, MS Office standard (Word, Excel, PowerPoint, Outlook)</p> <p>-Proficient in the use of the Microsoft office suite of software</p> <p>-Familiar with the operation of CAD software, ideally Catia</p>
Others	<p>-Expert user in at least one metrology software for the manipulation of discrete point and point cloud data, ideally Spatial Analyzer will be one of these; other examples are Polyworks, Geomagic, Verisurf.</p>

IO1909 Systems and Material Coordinator - CST-071

General information

Job category	Standard
Status	Published
Department	CST / Construction Department
Division	CST / Construction Management Division

Job description

Main job	Engineering - Construction
Title of the position	Systems and Material Coordinator - CST-071
Job family	Engineer - 1
Grade	P2
Direct employment	Not required
Purpose	<p>To support Material Management Officer in providing coordination, implementation, support, training and integration of all SmartPlant Material (SPMat) modules to support overall project material management requirements.</p>
Main duties / Responsibilities	<ul style="list-style-type: none">-Assesses and coordinates the need to engage SPMat support team upon requests from technical teams, to implement SPMat Modules, manage licenses, and anticipate or resolve potential conflicts relating to the SPMat implementation;-Provides technical support to all projects for Material Management, including trouble shooting help desk SPMat support for Engineering, Procurement and Site Modules;-Assists technical units to modify and adapts the standard configuration of SPMat to suit Project requirements;-Develops and performs maintenance of documentation relating to SPMat; also supports the development & update of training material together with the identification and delivery of training sessions;-Ensures the preparation, distribution and maintenance of all SPMat application related procedures, standards and operational guides;-Identifies integration requirements between SPMat and other third party systems;-Engages with Engineering Departments to monitor material at all project stages;-Creates and maintains a material catalogue including strategic sourcing, purchasing, expediting, supplier quality surveillance, logistics and field material control;- Ensures Bill Of Materials (BOMs) and Materials Take Off (MTOs) are properly managed, for data integrity, input and maintenance data in SPMat;-Works with Construction Management Division (CMG) / Project Control Office (PCO) to prioritize and update the material requirements for construction needs;-May be required to work outside normal working hours, including nights, weekends and public holidays;-Implements the technical control of the Protection Important, as well as their propagation to the entire supply chain;-May be requested to be part of any of the project/construction teams and to perform other duties in support of the project schedule;-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, Quality Policy, values and ethics.-Reports to Head of Construction Management Division;-In response to requests from the Director-General and/or Construction Department (CST) Head, or proactively, informs the DG/CST 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.
Measures of effectiveness	<ul style="list-style-type: none">-Maintains SPMat well operating without delay caused in particular by technical problems;-Provides Cataloguing, BOMs and MTOs within the defined frame time.-Maintains an effective communication with all stakeholders within the ITER Project.-Provides solutions for potential issues with respect to the Material Management in ITER Project.
	Project Construction Phase

Applicant criteria

Level of study	At least Bachelor's degree or equivalent
Diploma	Material Managt, Logistics or Construction Managt
Level of experience	At least 7 years
Technical experience/knowledge	<div>-At least 7 years' experience in the field of material supply chain activities in a construction project environment;</div> <div>-Good experience of SPMat or equivalent software including Administration, Engineering and Procurement Integration (E&PI), Master of Supply Chain Management (MSCM) and Site modules;</div> <div>-Good experience in project materials management process from BOM through Requisitioning, Procurement and Site;</div> <div>-Extensive experience in general systems and systems skills.</div>
Social skills	<div>Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit</div> <div>-Ability to comprehend, analyze and clearly document work processes, across disciplines or departments;</div>
General skills	<div>-Ability to analyze various issues and resolve them in a timely manner;</div> <div>-Ability to communicate with a wide variety of contributors and stakeholders;</div> <div>-Ability to model high standards of team mindset, trust, excellence, loyalty and integrity.</div>
Languages	English (Fluent)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	<div>-Standard office applications such as Microsoft Excel, Word, PowerPoint and Outlook;</div> <div>-Experience with data integration between discipline engineering applications and databases.</div>

IO1912 Quality Assurance Engineer QAA-010

General information

Job category	Standard
Status	Published
Department	DG / Director-General
Division	Quality Assurance & Assessment Division

Job description

Main job	Quality-Methodology - Quality Assurance
Title of the position	Quality Assurance Engineer QAA-010
Job family	Functional Officer - 1
Grade	G6
Direct employment	Not required
Purpose	<p>To provide Quality Assurance & Assessment (QAA) input, interface and to help coordinate the resolution of quality issues for the ITER Project.</p> <ul style="list-style-type: none">-Provides central Quality Assurance coordination and management of quality related issues;-Participates in the development of quality procedures;-Monitors procurement documentation for the correct application of specified requirements;-Advises on quality related issues including materials, design, manufacturing, construction, special processes;-Reviews quality plans, non-conformance reports, final quality documentation and other quality related documentation;-Assists in the implementation of quality training programs for IO and external personnel;-Participates in field quality visits;-Participates in internal and external quality audits;-Performs quality-related activities as directed by the Head of the QAA Division;-Implements the technical control of the Protection Important Activities, as well as their propagation to the entire supply chain;
Main duties / Responsibilities	<ul style="list-style-type: none">-May be required to work outside ITER Organization reference working hours, including nights, weekends and public holidays;-Performs other duties in support of the project schedule;-May be requested to participate in any of the project/construction teams and to perform other duties;-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.
Measures of effectiveness	<ul style="list-style-type: none">-Under the supervision of the team leader, reports to Head of the ITER Quality Assurance & Assessment Division;-Interacts with members of the ITER Team and Domestic Agency (DA) personnel as required;-In response to requests from the Director-General and/or proactively, informs the DG 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.-Monitors efficiently, proactively and in a timely manner all QAA of the ITER Organization's compliance with the Quality Assurance Program (QAP) for the defined scope;-Supports effectively the development and maintenance of MQP documentation;-Ensures that the Domestic Agencies, Suppliers and Contractors are well informed, guided and their activities are compliant with the ITER QAP in due time. <p>Project Construction Phase ID SAP 50000655</p>

Applicant criteria

Level of study	Master or equivalent degree
Diploma	mechanical, welding or other engineering/technical

Level of experience	At least 5 years
Technical experience/knowledge	<ul style="list-style-type: none"> -Comprehensive knowledge of quality standards is essential; -Extensive experience in similar jobs (involving similar work responsibilities) and/or additional training certificates in relevant domains may be considered a reasonable substitute for the required educational degree. -At least 5 years of proven experience of working in Quality Assurance; -Experience in writing quality procedures; -Coordination skills are essential; -Experience in the application of Quality Control is desirable; -Experience in manufacturing and assembly phase of mechanical components in a large construction project is desirable; -Knowledge of special processes for joining and welding inspection is desirable; -Experience in the implementation of quality systems in the highly regulated industry is desirable; -Audit experience is desirable.
Social skills	<p>Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit</p> <ul style="list-style-type: none"> -Effective writing and verbal communication skills are essential to facilitate dialogue with a wide variety of contributors and stakeholders; -Negotiation and communication skills to adjust communication content and style are necessary when recommending alternatives or clarifying division positions on QA to others;
General skills	<ul style="list-style-type: none"> -Ability to work effectively in a multi-cultural environment; -Ability to work in a team and to promote team work; -Ability to understand, analyze and clearly document work processes, across disciplines or departments; -Ability to analyze various issues and resolve them in a timely manner; -Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.
Languages	English (Fluent)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)