

## ITER 국제기구 공모 직위 직무기술서 (제214차)

### ○ 4개 직위

구분	분야	소속	직위	Job No.	등급
①	건설 (CST)	Construction Department Tokamak Complex Section/Division	Mechanical Installation Engineer	CST-073	P4
②			Electrical Installation Engineer	CST-055	P4
③				CST-074	P4
④		Construction Department Construction Management Division	Construction Management Officer	CST-075	P4

# IO1897 Mechanical Installation Engineer - CST- 073

## General information

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

## Job description

Main job	Engineering - Mechanics
Title of the position	Mechanical Installation Engineer - CST- 073
Job family	Coordinating Engineer
Grade	P4
Direct employment	Not required
Purpose	<p>To monitor all plant systems fabrication, installation and handover in the scope of the Construction Team Tokamak Complex (CTTC);</p> <p>To prepare, plan, coordinate and implement the installation of the Tokamak Complex systems for dedicated buildings of the ITER Site;</p> <p>To develop Scopes of Work and Construction Process Descriptions (CPDs) in conjunction with the ITER Organization Plant Breakdown Structure (PBS) systems sequence and baseline requirements;</p> <p>To take part in / assist with Construction Readiness Reviews (CRRs) for process systems construction execution activities;</p> <p>To develop and elaborate the strategies and solutions necessary for the installation of the Tokamak Complex systems;</p> <p>To promote compliance of the Tokamak Complex construction execution activities with the ITER Safety requirements, 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"><li>- Prepares and implements resource-loaded plans for the work, and also coordinates the resources assigned to support the work for Tokamak Complex;</li><li>- Participates in the evaluation of the engineering designs of the Tokamak Complex components and plant systems, and provides the Construction Management as Agent (CMA), appropriate PBS Technical Responsible Officer (TRO) and system designers/engineers with inputs on engineering work scope completion, installation methods &amp; requirements and construction execution sequence / activities;</li><li>- Assists the Buildings Infrastructure &amp; Power Supplies and Construction Team for Tokamak Complex with the development of systems coordination between Heating, Ventilation and Air Conditioning (HVAC), liquid and gas systems and the IO process systems;</li><li>- Reviews / develops concepts with the CMA/PBS TRO for installing, controlling and certifying the Tokamak Complex components design and systems installation constructability &amp; sequence;</li><li>- Identifies the methods required to ensure the safe, successful and timely installation of Tokamak Complex systems, in collaboration with the CMA &amp; PBS TROs;</li><li>- Ensures compliance of the Tokamak Complex construction execution activities with the ITER Safety requirements, Quality Assurance (QA) program;</li><li>- Identifies developments, produces and maintains documents for the installation scope, Construction Process Description, and implements the most appropriate sourcing solution, in close collaboration with CMA, PBS TRO &amp; Construction Management Division (CMG);</li><li>- Assists the CMG in the management of tender, contractor &amp; installation contracts;</li><li>- May be required to work outside normal working hours, including nights, weekends and public holidays;</li><li>- Implements the technical control of the Protection Important Activities, as well as their propagation to the entire supply chain;</li><li>- Performs other duties in support of the project schedule;</li><li>- May be requested to be part of any of the project/construction teams and to perform other duties;</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>-Reports to the Tokamak Complex Section/Division Head;</li> <li>-Interfaces directly with Quality Assurance and Assessment Division and with all Departments of the ITER Organization (i.e. IO, the CMA and associated craft personnel);</li> <li>-In response to requests from the Director-General (DG) and/or the Head of Construction Department (CST), 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.</li> </ul>
	<ul style="list-style-type: none"> <li>-Implements strategies and solutions to efficiently define, validate, execute and control the installation of mechanical aspects of the Tokamak Complex systems within the defined cost and schedule;</li> <li>-Generates and maintains coherent, comprehensive, and understandable documentation within the defined timeline;</li> <li>-Maintains effective communications within the IO, CMA and the Domestic Agencies;</li> <li>-Ensures the proper implementation &amp; compliance with the ITER Safety, Quality Assurance (QA) program and Nuclear Regulator requirements.</li> </ul> <p>Project Construction Phase</p>

## Applicant criteria

Level of study	Master or equivalent degree
Diploma	Mechanical Engineering
Level of experience	At least 10 years
Technical experience/knowledge	<ul style="list-style-type: none"> <li>Knowledge of Start Up and Test requirements for process systems;</li> <li>-Detailed knowledge of mechanical systems, HVAC, liquid and gas, vacuum, cryogenic and cooling water (chilled water and component cooling water), Fueling, Heating and Current Drive and Diagnostic systems would be a strong advantage.</li> </ul>
	<ul style="list-style-type: none"> <li>-At least 10 years' experience in Mechanical Engineering Design, Construction and Commissioning of large scale industrial plants, a number of which to have constructed high value;</li> <li>-At least 5 years' experience in a nuclear fusion project or research projects;</li> <li>-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;</li> <li>-Experience in Tender package compilation and procurement;</li> <li>-Experience in international projects.</li> </ul>
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"> <li>-Proactive, with drive and initiative;</li> <li>-Ability to interface with team members at all levels;</li> <li>-Ability to write clear and concise reports in English.</li> </ul>
Languages	English (Fluent)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	<ul style="list-style-type: none"> <li>-Proficient command of the Microsoft Office packages;</li> <li>-Knowledge of software types usually used within a multidiscipline project environment computer aided design, scheduling software, estimating software, etc.</li> </ul>

# IO1895 Electrical Installation Engineer - CST- 055&074

## General information

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

## Job description

Main job	Engineering - Electricity
Title of the position	Electrical Installation Engineer - CST- 055&074
Job family	Coordinating Engineer
Grade	P4
Direct employment	Not required Two openings
Purpose	<p>To monitor all plant systems fabrication, installation and handover in the scope of the Construction Team Tokamak Complex (CTTC);</p> <p>To prepare, plan, coordinate and implement the installation of the Tokamak Complex systems for dedicated buildings of the ITER Site;</p> <p>To develop Scopes of Work and Construction Process Descriptions (CPDs) in conjunction with the ITER Organization (IO) Plant Breakdown Structure (PBS) systems construction execution activities;</p> <p>To take part in / assist with Construction Readiness Reviews (CRRs) for electrical distribution systems project baseline requirements;</p> <p>To develop and elaborate the strategies and solutions necessary for the installation of the Tokamak Complex systems;</p> <p>To promote compliance of the Tokamak Complex construction execution activities with the ITER Safety requirements, Quality Assurance (QA) program, configuration management requirements for Nuclear Facilities, procurement procedures and cost-containment objectives.</p> <ul style="list-style-type: none"><li>- Prepares and implements resource-loaded plans for the work, and also coordinates the resources assigned to support the work for Tokamak Complex;</li><li>-Participates in the evaluation of the engineering designs of the Tokamak Complex components and plant systems, and provides the Construction Management as Agent (CMA), appropriate Plant Breakdown Structure (PBS) Technical Responsible Officer (TRO) and system designers/engineers with inputs on engineering work scope completion, installation methods &amp; requirements and construction execution sequence / activities;</li><li>-Assists the Buildings Infrastructure &amp; Power Supplies and Construction Team for Tokamak Complex with the development of systems coordination between Heating, Ventilation and Air Conditioning (HVAC), liquid and gas systems and the IO process systems;</li><li>-Elaborates, validates and maintains installation procedures, schedules, resource requirements and cost estimates with the CMA, Construction Management Division (CMG) &amp; relevant PBS TRO;</li></ul>
Main duties / Responsibilities	<ul style="list-style-type: none"><li>-Anticipates and identifies potential safety, quality, or technical issues using the project Request for Information &amp; Tender Query tools for design and construction activities and manages the timely resolution of each in conjunction with the responsible entity / party;</li><li>-Identifies the methods required to ensure the safe, successful and timely installation of Tokamak Complex electrical systems, in collaboration with the CMA &amp; PBS TROs;</li><li>-Identifies developments, produces and maintains documents for the installation scope, Construction Process Description, and implements the most appropriate sourcing solution, in close collaboration with CMA, PBS TRO &amp; CMG;</li><li>-Maintains close coordination and shares all resource information with the Construction Team for Tokamak Assembly and the Construction Team for Plant Installation;</li><li>-May be required to work outside normal working hours, including nights, weekends and public holidays;</li></ul> <p>-Implements the technical control of the Protection Important Activities, as well as their propagation to the entire supply chain;</p>

Measures of effectiveness	<ul style="list-style-type: none"> <li>-Performs other duties in support of the project schedule;</li> <li>-May be requested to be part of any of the project/construction teams and to perform other duties;</li> <li>-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</li> </ul>
	<ul style="list-style-type: none"> <li>-Reports to the Tokamak Complex Section/Division Head;</li> <li>-Interfaces directly with Quality Assurance and Assessment Division and with all Departments of the ITER Organization i.e.(IO,the CMA and associated craft personnel);</li> <li>-In response to requests from the Director-General (DG) and/or the Head of Construction Department (CST), 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.</li> </ul>
	<ul style="list-style-type: none"> <li>-Implements strategies and solutions to efficiently define, validate, execute and control the installation of electrical aspects of the Tokamak Complex systems within the project baseline defined cost and schedule</li> <li>-Generates and maintains coherent, comprehensive, and understandable documentation within the defined timeline;</li> <li>-Maintains effective communications within the IO, CMA and the Domestic Agencies;</li> <li>-Ensures the proper implementation &amp; compliance with the ITER Quality Assurance (QA) program and safety requirements;</li> </ul>
	Project Construction Phase

## Applicant criteria

Level of study	Master or equivalent degree
Diploma	Electrical Engineering
Level of experience	At least 10 years
Technical experience/knowledge	<ul style="list-style-type: none"> <li>-Detailed knowledge of electrical systems and I &amp; C systems for industrial plant systems such as HVAC, liquid and gas, vacuum, cryogenic and cooling water (chilled water and component cooling water), Fueling, Heating and Current Drive and Diagnostic systems would be a strong advantage;</li> <li>-Knowledge of Start Up and Test requirements for process systems.</li> </ul>
	<ul style="list-style-type: none"> <li>-At least 10 years' experience in Electrical Engineering Design, Construction and Commissioning of large scale industrial plants, a number of which have constructed high value;</li> <li>-At least 5 years' experience in a nuclear fusion project or research projects;</li> <li>-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;</li> <li>-Experience in Tender package compilation and procurement;</li> <li>-Experience in international projects.</li> </ul>
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"> <li>-Proactive, with drive and initiative;</li> <li>-Ability to interface with team members at all levels;</li> <li>-Ability to write clear and concise reports in English.</li> </ul>
	<ul style="list-style-type: none"> <li>-Proficient command of the Microsoft Office packages;</li> <li>-Knowledge of software types usually used within a multidiscipline project environment computer aided design, scheduling software, estimating software, etc.</li> </ul>
Languages	English (Fluent)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)

# IO1896 Construction Management Officer - CST-075

## 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	Construction Management Officer - CST-075
Job family	Coordinating Engineer
Grade	P4
Direct employment	Not required
Purpose	<p>To anticipate and identify possible technical, operational, managerial and/or contractual issues with internal and external stakeholders, and to proactively resolve them in collaboration and coordination with all concerned parties;</p> <p>To ensure effective, transversal communication with internal and external parties and stakeholders across the entire ITER Project.</p> <p>-Anticipates, identifies and verifies issues across construction teams and/or with Construction Management Division (CMG), categorizes and registers them in a structured manner;</p> <p>-Develops recommendations, priority management and recovery plans based on root-cause analysis with impact assessment of multiple options and escalates issues and resolution plans to Head of CMG when necessary;</p> <p>-Implements resolution plan under supervision of Head of CMG and resolves issues as quickly as possible. To do so, interacts with concerned Responsible Officers (RO) or the most appropriate stakeholders involved, effectively communicates and convinces, reaches to agreement and defines follow-up actions together with appropriate line management of the ROs;</p> <p>-Tracks progress of issue resolution and proactively provides any necessary supports to Head of CMG in his duty of resolving high-level issues;</p> <p>-Schedules and implements a regular communication plan on status of issue resolution with concerned stakeholders;</p> <p>-Records issues in Project Issue Management (PIM) system as necessary, in liaison with the Central Integration Office (CIO);</p> <p>-Identifies any potential risks associated with the implementation of the recovery plans, communicating within CST and with Project Control Office (PCO) and recording identified risks in Project Risk and Opportunity Register (PROR);</p> <p>-Builds and maintains relationship with internal and external stakeholders;</p> <p>-Develops methodology to enable early detection of issues mitigating their impacts;</p>
Main duties / Responsibilities	<p>-Shares lessons learned from issues resolution and shares best practices throughout the entire Project;</p> <p>-Supports the Head of CMG for any management issues and/or high-level tasks that needs problem solving and stakeholder management;</p> <p>-May be required to work outside normal working hours, including nights, weekends and public holidays;</p> <p>-Implements the technical control of the Protection Important Activities, as well as their propagation to the entire supply chain;</p> <p>-May be requested to be part of any of the project/construction teams and to perform other duties in support of the project schedule;</p> <p>-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p> <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. Training and support will be provided by the ITER Organization;</p>

Measures of effectiveness	<ul style="list-style-type: none"> <li>-Reports to Head of Construction Management Division;</li> <li>-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.</li> </ul>
	<ul style="list-style-type: none"> <li>-Resolves outstanding issues in the scope of Construction Activities through implementing recovery plan within the defined schedule;</li> <li>-Develops a complete register of issues sorted out with the defined methodology;</li> <li>-Identifies systematically potential issues and provides an efficient action plan to avoid their development focusing on most critical problems;</li> <li>-Shares and communicates effectively on lessons learned within the Project to upgrade issues' impact awareness;</li> <li>-Establishes and maintains excellent relationship with different stakeholders.</li> </ul>
Project Construction Phase	

## Applicant criteria

Level of study	Master or equivalent degree
Diploma	Business administration or Project Mangmt or other
Level of experience	At least 10 years  Additional training in problem solving, negotiation or conflict management is considered as an advantage.
Technical experience/knowledge	<ul style="list-style-type: none"> <li>-At least 10 years' experience in the field of in share and stakeholders management at an international level within a multicultural environment and complex governance structure; ;</li> <li>-Extensive experience in Construction or Manufacturing or related Project Management;</li> <li>-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.</li> </ul>
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"> <li>-Ability to demonstrate strong leadership;</li> <li>-Ability to build a solid trusted-relationship with key stakeholders at all levels;</li> </ul>
Languages	English (Fluent)
Others	<ul style="list-style-type: none"> <li>-Excellent level of Microsoft Office applications such as PowerPoint, Word and Excel, in order to promptly prepare a necessary communication tools, i.e. Presentations, Analysis results, Reports, etc.;</li> <li>-Experience in using Issue Management Database or Risk Management Database.</li> </ul>