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## JOB DETAIL

Ref. IO1897 - 9/26/2017

### Mechanical Installation Engineer - CST- 073

**Main job** Mechanics

**Department** CST / Construction Department

**Division** CST / Tokamak Complex Section/Division

**Job Family** Coordinating Engineer

**Application Deadline  
(MM/DD/YYYY)** 11/08/2017

**Grade** P4

**Direct employment** Not required

**Purpose** To monitor all plant systems fabrication, installation and handover in the scope of the Construction Team Tokamak Complex (CTTC);  
To prepare, plan, coordinate and implement the installation of the Tokamak Complex systems for dedicated buildings of the ITER Site;  
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;  
To take part in / assist with Construction Readiness Reviews (CRRs) for process systems construction execution activities;  
To develop and elaborate the strategies and solutions necessary for the installation of the Tokamak Complex systems;  
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.

- Prepares and implements resource-loaded plans for the work, and also coordinates the resources assigned to support the work for Tokamak Complex;  
- 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 & requirements and construction execution sequence / activities;

**Main duties / Responsibilities** - Assists the Buildings Infrastructure & 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;  
- Reviews / develops concepts with the CMA/PBS TRO for installing, controlling and certifying the Tokamak Complex components design and systems installation constructability & sequence;  
- Identifies the methods required to ensure the safe, successful and timely installation of Tokamak Complex systems, in collaboration with the CMA & PBS TROs;  
- Ensures compliance of the Tokamak Complex construction execution activities with the ITER Safety requirements, Quality Assurance (QA) program;  
- 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 & Construction Management Division (CMG);  
- Assists the CMG in the management of tender, contractor & installation contracts;  
- May be required to work outside normal 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;  
- Performs other duties in support of the project schedule;  
- 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 Program, values and ethics.

**Measures of effectiveness** - Reports to the Tokamak Complex Section/Division Head;  
- 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);

My space



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My job alert

-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.

-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;  
 -Generates and maintains coherent, comprehensive, and understandable documentation within the defined timeline;  
 -Maintains effective communications within the IO, CMA and the Domestic Agencies;  
 -Ensures the proper implementation & compliance with the ITER Safety, Quality Assurance (QA) program and Nuclear Regulator requirements.

Project Construction Phase

<b>Level of study</b>	Master or equivalent degree
<b>Diploma</b>	Mechanical Engineering
<b>Level of experience</b>	At least 10 years
<b>Technical experience/knowledge</b>	<p>- Knowledge of Start Up and Test requirements for process systems;</p> <p>-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.</p> <p>-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;</p> <p>-At least 5 years' experience in a nuclear fusion project or research projects;</p> <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>-Experience in Tender package compilation and procurement;</p> <p>-Experience in international projects.</p>
<b>Social skills</b>	<p>Ability to work effectively in a multi-cultural environment</p> <p>Ability to work in a team and to promote team spirit</p>
<b>Specific skills</b>	MS Office standard (Word, Excel, PowerPoint, Outlook)
<b>General skills</b>	<p>-Proactive, with drive and initiative;</p> <p>-Ability to interface with team members at all levels;</p> <p>-Ability to write clear and concise reports in English.</p>
<b>Others</b>	<p>-Proficient command of the Microsoft Office packages;</p> <p>-Knowledge of software types usually used within a multidiscipline project environment – computer aided design, scheduling software, estimating software, etc.</p>
<b>Languages</b>	English (Fluent)

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