

Plant System Installation – Senior Engineer

TKM-080

Reports to Line Manager:	Machine Assembly & Tooling Section Leader, Assembly and Maintenance Division, Tokamak Department	Job Code:	TKM-080
Direct Employment:	Not Required	Grade:	P4

Purpose

To support the Machine Assembly and Tooling Section Leader in matters related to the installation of all plant systems, including the water cooling systems, vacuum systems, cryogenic systems, electrical busbars and the associated components;

To be responsible for developing an overall strategy for completing the installation of the relevant plant systems, focusing on integration, logistics, schedule and cost, and for ensuring acceptability with the system designers;

To be in charge of the elaboration of the procedures required to assemble and install the system hardware, the preparation, maintenance and integration of the installation schedule and the associated resource and cost estimates, the conceptualization of the required tooling, and the identification and development of the necessary enabling technologies.

Major Duties/Responsibilities

- Supports the Machine Assembly and Tooling Section Leader in all matters related to the assembly and installation of plant systems;
- Develops strategies and concepts for assembling, installing, and aligning the plant systems;
- Is in charge of the elaboration, validation and maintenance of assembly procedures, schedules, resource requirements and cost estimates;
- Identifies and conceptualizes the assembly tooling required to ensure successful installation and alignment of plant systems;
- Prepares technical specifications for the engineering design of the assembly tooling;
- Participates in the drawing up of technical specifications for the installation contracts associated with the systems for which the ITER Organization is responsible;
- Identifies specific development tasks and/or feasibility studies which may be needed, including writing technical specifications;
- Interfaces with the system responsible officers, all Departments within the ITER Organization and its Partners at all levels;
- Evaluates engineering designs for plant systems and guidance provisions for assembly aspects;
- Participates in the monitoring of the manufacturing and acceptance of components;
- Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.

Qualifications and Experience

- **Education:**
 - Degree at least equivalent to 5-8 years of study after the High School Diploma, in Mechanical Engineering or other relevant discipline.
- **Technical experience:**
 - At least 15 years' experience in the planning and construction of large, complex engineering projects with a strong emphasis on the installation of mechanical systems;
 - Experience in the installation of plant systems during building construction would be a strong advantage;
 - Extensive knowledge of Quality Assurance systems and their practical application;
 - Experience with international procurement and tendering;
 - Demonstrated ability to develop innovative solutions to complex engineering problems;
 - Ability to write clear and concise reports in English.
- **Project experience:**
 - Substantial knowledge of project and contract management.
- **People Management experience:**
 - At least 5 years' experience in a supervisory/management role.
- **Social skills:**
 - Proactive, with drive and initiative;
 - Ability to work as a member of a multicultural team and to interface with team members at all levels, but to also work independently when required;
- **Language requirements:**
 - Fluent in English (written and spoken).

Direct Supervisor and Interfaces

- Reports to the Leader of the Machine Assembly and Tooling Section;
- Acts as an interface between directly interfaces with project team at all levels.

Authority / Approval Levels

This position has authority and approval levels as generally defined by the DDG for his/her scope of work.

Measures of Effectiveness

- Successfully supports the Section Leader in developing and maintaining the Assembly Plan for plant systems;
- Successfully promotes the installation strategy, the associated schedule, cost and resource estimates, and secures the acceptance of the related team players;
- Successfully generates and maintains coherent, comprehensive and understandable documentation;
- Successfully maintains effective communications with collaborators at all levels of the ITER Organization and the Domestic Agencies;
- Successfully completes the objectives set in agreement with the Machine Assembly and Tooling Section Leader.