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Technical Engineer – Machine Assembly Tooling TKM-105

Reports to Line Manager:	Machine Assembly & Tooling Section Leader, Department for Tokamak	**Job Code:**	TKM-105
Direct Employment:	Not Required	**Grade:**	G5

china
eu
india
japan
korea
russia
usa

Purpose

To support the Machine Assembly and Tooling Section staff in matters related to the design, manufacturing, operation and maintenance of the tooling systems required to complete the assembly of the ITER machine. The scope of the work will include, but shall not necessarily be limited to assisting in the preparation of design concepts, drafting technical specifications, preparation of drawings, follow-up of the procurement activities, and overseeing the on-site operation and maintenance of the tools. The candidate will also participate in the development of technologies required to complete the assembly operations, and ensure compliance with the ITER Quality Assurance (QA) Program, safety requirements and procurement procedures. The successful candidate will be required to travel extensively.

Major Duties/Responsibilities

- Supports the staff of the Machine Assembly and Tooling Section in all matters related to the design, procurement, operation and maintenance of the machine assembly tools;
- Assists in the design and development of the tooling required to assemble the Tokamak systems, and associated plant;
- Participates in the drafting of technical specifications, and supervises the preparation of drawings;
- Assists in the issue of calls for tender, and the technical evaluation of the returns;
- Participates in R&D, manufacturing, assembly, operation and maintenance oversight;
- Shows a strong commitment to the ITER Safety Program and enforce it through individual behaviour and work organization;
- 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 4-5 years of study after the High School Diploma, in Mechanical Engineering or other related discipline.

Technical experience:

- At least 10 years' experience in the design, manufacture and assembly of large, complex jigs and handling systems;
- Detailed knowledge of manufacturing processes, including experience with stainless steels;

  - Knowledge of the specific requirements related to the manufacture of lifting equipment would be a strong advantage.
- ***Project experience:***
  - Substantial knowledge of project and contract management;
  - Extensive knowledge of QA systems and their practical application in a manufacturing environment;
  - Experience of international procurement and tendering.
- ***Social Skills:***
  - Proactive, with drive and initiative;
  - Ability to work effectively as a member of a multi-cultural team, but also to work independently when required;
  - Ability to interface with team members at all levels;
  - Ability to work in a team and to promote team work.
- ***Language requirements:***
  - Fluent in English (written and spoken);
  - Ability to write clear and concise reports.
- ***Computer and IT skills:***
  - Computer literate and proficient in the use of the Microsoft Office software suite (Word, Excel, Powerpoint, etc);
  - Working knowledge of CAD and database management software would be an advantage.

Direct Supervisor and Interfaces

- Reports to the Leader of the Machine Assembly and Tooling Section;
- Supports the members of the Machine Assembly and Tooling Section.

Authority / Approval Levels

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

Measures of Effectiveness

- Successfully supports the Section in the design, procurement, operation and maintenance of machine assembly tools;
- Ensures quality, maintains delivery schedules and cost;
- Generates and maintains coherent, comprehensive and understandable documentation, and effectively reports progress;
- Maintains good communication with collaborators within the ITER Organization;
- Successfully completes the objectives set in agreement with the Leader of the Machine Assembly and Tooling Section.