

Remote Handling Engineer

TKM-094

Reports to Line Manager:	Remote Handling Section Leader, Assembly & Maintenance Division, Tokamak Division	Job Code:	TKM-094
Direct Employment:	Not Required	Grade:	P4

Purpose

To support the Leader for the ITER Remote Handling (RH) Section in matters related to ITER RH System design: systems engineering, control system design, remote operations requirements, analytical support, procurement arrangement specifications, procurement project management, and coordinating the ITER RH equipment procurement with the Domestic Agencies (DAs).

Major Duties/Responsibilities

china

eu

india

japan

korea

russia

usa

- Supports the ITER Remote Handling Section Leader in all matters related to the management and technical coordination/integration of the project;
- Provides a lead on high and low level control system design and implementation activities across the ITER RH systems;
- Manages the administrative aspects associated with the ITER RH control system design, R&D, and procurement arrangement specifications;
- Coordinates horizontal system engineering activities across the ITER Remote Handling systems: Design Process Quality, Standardization, Safety Analysis, Acceptance Tests, and Integration;
- Ensures that the ITER RH systems design meets the requirements for the ITER machine remote maintenance;
- Effectively interfaces with the ITER Domestic Agency Responsible Officers for procurement to address control and systems engineering issues;
- Manages the administrative aspects associated with the ITER Remote Handling control system design, R&D, procurement arrangement specifications;
- 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 6 years of study after the High School Diploma, in Engineering, Technology or other relevant discipline.
- **Technical experience:**
 - At least 12 years' experience in Remote Handling engineering on a large nuclear fusion facility and having a strong foundation in robotics theory and standards;
 - Experience in the design and development of control systems for remote handling/robotic devices for nuclear or fusion facilities;

- Experience in the operation and maintenance of Remote Handling systems while carrying out extended maintenance shutdowns of nuclear fusion facilities;
- Experience with the software and hardware tools required for the high-level coordination and operation of a Remote Handling system: command & control interfaces, master devices, virtual reality, procedure management, equipment management, viewing, condition monitoring;
- Experience with equipment control analysis, performance modelling, and use of simulation tools for system specification and analysis;
- Knowledge of the full life-cycle of ITER Remote Handling systems and the processes for designing a facility for ITER Remote Handling compatibility would be an advantage;
- Experience with the layout and operational requirements of an ITER Remote Handling control room would be an advantage;
- ***Project experience***
 - Demonstrated capability to work in a design team and coordinate the activities of multidisciplinary and geographically dispersed personnel on a complex developmental project;
- ***Social Skills***
 - Experience working in an international environment and ability to co-operate and work as part of a team;
 - Excellent capability to interact with experts from different disciplines.
- ***Language requirements***
 - Fluent in English (written and spoken).
- ***Computer and IT skills***
 - Consistent with managing a complex developmental project.

Direct Supervisor and Interfaces

- Reports to the ITER Remote Handling Section Leader;
- Interfaces with all other departments within the ITER Organization as required.

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 collaborates with the ITER machine component designers to optimize both component and remote maintenance equipment design and performance;
- Successfully supports the ITER Remote Handling & Maintenance team;
- Successfully completes the tasks assigned above under “Main Duties/Responsibilities” (particularly, to provide effective cost/schedule/procurement management, and to effectively interface with the ITER DAs).
- Enforces and maintains the ITER Quality Assurance Program and safety requirements.