

IO1567 Remote Handling & Radioactive Materials DH PED-005

General information

Job category	Standard
Status	Published
Department	PED / Plant Engineering Department
Division	PED / Remote Handling & Radioactive Materials Division

Job description

Main job	Engineering - Nuclear Power
Title of the position	Remote Handling & Radioactive Materials DH PED-005
Job family	Head of Division
Grade	D1
Direct employment	Required
Purpose	<p>Responsible for managing the ITER RH (Remote Handling) Systems, both on the Tokamak and in the Hot Cell, including design and integration of all systems in the Hot Cell, Radwaste and Personnel Access Control Facilities, planning and development of maintenance activities in and around the Tokamak.</p> <p>Responsible for the management of radioactive materials on the ITER site. Making clear estimates of the inventories of all radioactive waste to be produced during the ITER radioactive Operation Phase, from the D-D to the end of Decommissioning Phase. They will be charged with defining and optimizing waste management and processing inside the plant treating the waste generated according to the French regulations and ANDRA specifications.</p> <p>Responsible for the specification of functional requirements of the systems, their design and procurement, installation, testing and integrated commissioning. Plans for the management of Manual and RH maintenance activities on the Tokamak, the Hot Cell and Radwaste Facilities. To assure a transversal service for all the ITER Departments so that current and future Tokamak, Hot Cell and Radwaste hardware designs and processes:</p> <p>are amenable to efficient Manual or RH Maintenance, ensuring in the designs a high level of safety, including minimization of worker radiological exposure according to ALARA principles; minimize waste volume production, maximize the use of standard processes and standard packaging, transportation and disposal.</p> <p>To ensure that all radiological waste paths are well defined, consistent with the facilities and regulations of the host country, France.</p>
Main duties / Responsibilities	<p>Coordinates and collaborates with the RH & RM Section Leaders and staff to complete the design and integration of the equipment and facilities, ensuring that structural/hydraulic/mechanical/nuclear calculations are performed on time and within budget; Assures that contracts are managed within the budget and that they are consistent with the agreed contractual time schedule, extending as much as possible the Home Office engineering activities;</p> <p>Ensures that functional requirements for each Tokamak Remote Handling, Hot Cell, Radwaste and Plant System are specified and documented, and that functional requirements meet user needs; Ensures that systems within the Division satisfy the design review process at ITER, ensuring that only designs that optimize quality, safety, schedule and cost are carried forward;</p> <p>Assures integration of Buildings Interfaces and Space Management area by area for the buildings that make up the Hot Cell Complex (Hot Cell, Radwaste, Personnel Access Control), properly supporting mechanical/electrical and I&C construction and installation activities.</p> <p>Anticipates, averts and/or resolves issues that arise regarding the quality and design of each of the ITER Tokamak Remote Handling, Hot Cell, Radwaste and Plant Systems by collaborating with the Integrated Product Teams (IPTs), proposing and promoting mitigation methods;</p> <p>Assures the collection and reporting of project management information including progress on design and fabrication activities performed by the IPTs;</p> <p>Assures completion of Procurement Arrangements for ITER Tokamak Remote Handling, Hot Cell, Radwaste and Plant Systems, including design description documents and technical specifications;</p> <p>Integrates the licensing activities in close contact with the Safety Department;</p>

Measures of effectiveness	<p>Prevents conflicts and when necessary ensures conflict resolution regarding the schedule and cost of the ITER Tokamak RH, Hot Cell, Radwaste and Plant Systems construction;</p> <p>Provides effective leadership for the Division ensuring that team members are motivated and constantly developing their skills and experience;</p> <p>Is responsible for providing a design plan and baselines for the waste processes including scope baseline, cost baseline, schedule baseline and risks baseline;</p> <p>Is responsible for implementing safety analyses of the waste processes and assessments required for the licensing application, in close contact with the Safety Department;</p> <p>Executes and delivers the Detailed Work Schedule in support of the Strategic Management Plan for scope, budget and schedule of the systems in the Division, and contributes to the staffing of the Division;</p> <p>Assures that the ITER Organization's goals are achieved in a timely and effective manner, and that they meet safety, quality, cost and schedule targets;</p> <p>Maximizes human capital and people's commitment to achieving the project's goals;</p> <p>Provides leadership in safety, upholding the safety culture at all levels;</p> <p>Builds and maintains relationships with internal and external stakeholders;</p> <p>Performs other duties upon the request of management, as necessary;</p> <p>Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p>
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Applicant criteria

Level of study	At least Master's Degree or equivalent
Diploma	Mechanical or Nuclear Engineering or relevant
Level of experience	At least 15 years
	At least 15 years' experience in the relevant engineering management, mechanical design, or systems engineering; international experience would be an advantage;
	Good Project Management experience is required.
Technical experience/knowledge	<p>Qualified technical knowledge in design/procurement and installation/commissioning of Nuclear Systems considering integration among Clients, Distribution and Suppliers;</p> <p>Qualified knowledge in managing licensing design basis of systems and components as well as safety issues consistent with the ITER Safety Report;</p> <p>Qualified knowledge of Remote Handling and Radwaste Management;</p> <p>Knowledge and experience in performing, or managing teams performing, structural, mechanical, thermal-hydraulic, nuclear and radiological calculations;</p> <p>In-depth understanding of complex space management integration addressing layout solutions.</p> <p>In-depth technical understanding of complex design and construction (e.g., large tokamaks, nuclear plant systems and components)</p>
People management experience	At least 10 years
Social skills	<p>Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit</p> <p>Experience in the operation of large Tokamaks and/or Tokamak sub-systems; knowledge of materials science and tritium physics would be an advantage.</p> <p>A doctorate in a relevant field would be an advantage;</p> <p>Knowledge of water chemistry, construction, radwaste processing, hot cell operations, detritiation systems and remote handling will be considered an advantage.</p>
General skills	<p>Ability to provide effective leadership;</p> <p>Ability to motivate and develop the team members' skills and experience;</p> <p>Managerial experience in a wide range of project-related experience or plant design and construction.</p> <p>Ability to develop and maintain effective international contacts;</p> <p>Excellent communication skills;</p> <p>Collaborative, flexible and positive personality;</p> <p>Ability to negotiate and convince internal and external stakeholders.</p> <p>IT skills consistent with requirements for managing a complex project.</p>
Languages	English (Fluent)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)

Reports to the Director of the Plant Engineering Department;
Acts as an interface for all other ITER Project Divisions/Sections as required;
Maintains communications with other organizations within the ITER collaboration and the fusion community;
In response to requests from the Director-General (DG), or proactively, informs the DG of any important and/or urgent issues that cannot be handled by the concerned line management and which could jeopardize the achievement of the Project's objectives.

Others

Communicates effectively with the Remote Handling & Radioactive Materials Section Leaders to foster a collaborative and productive working environment;
Communicates and collaborates efficiently with other IPTs/organizations within the ITER Organization;
Responsible for Division deliverables that meet safety standards, quality, schedule and cost requirements;
Responsible for implementation of nuclear safety regulations and other safety standards relevant to the Division's work.