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JOB DETAIL

Ref. IO1106 - 11/10/2010

Tritium Plant Section Leader CEP-015

Main job	Fusion
Department	DIP/Directorate for Central Engineering & Plant
Division	CEP / Fuel Cycle Engineering Division
Section	CEP / FCE / Tritium Plant Section
Job Family	Project engineering
Application Deadline	12/12/2010
Grade	P5
Direct employment	Required
Purpose	To lead the ITER Tritium Plant section and manage all design aspects and integration of the whole Tritium Plant, including Research and Development (R&D), the detailed design and layout of primary tritium processing and confinement systems for the Tokamak Complex and Hot Cell, the development of technical specifications and procurement arrangements, and the implementation of the ITER Radiological Protection and Environmental Monitoring systems.
Main duties / Responsibilities	<ul style="list-style-type: none"> •Acts as the Responsible Officer for the Tritium Plant and all ITER tritium confinement systems; •Compiles and assesses all Tritium Plant systems requirements; •Manages all design aspects of primary tritium processing and detritiation and confinement systems; •Coordinates the integration and layout of the Tritium Plant as a whole; •Manages all interfaces of Tritium Plant associated systems and components, particularly those that contain or handle tritium, and interfaces to buildings, including penetrations and supports; •Ensures the consistency of the Tritium Plant procurement and construction planning, including tritium testing and commissioning; •Coordinates and directs the work of the Tritium Plant system engineers and the contributions from the Domestic Agencies (DAs); •Implements the ITER Radiological and Environmental Monitoring Systems (REMS); •Liaises with the DAs with respect to Procurement Packages; •Provides support in the licensing activities and assessment of safety related functions in close contact with the safety group; •Supervises procurement and contracts with suppliers; •Provides effective leadership for the Section ensuring team members are motivated and constantly developing their skills and experience; •Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.
Measures of effectiveness	<ul style="list-style-type: none"> •Successfully builds-up and executes all functions as described above; •Prepares high-quality materials required for the project in a timely manner; •Successfully communicates with Tritium Plant collaborators; •Manages and integrates the contributions from the DAs in Tritium Plant design, in-kind contribution and R&D.
Level of study	Master or equivalent degree
Diploma	Master/PhD nuclear technology/chemical engineering
Level of experience	At least 10 years
Technical experience	<ul style="list-style-type: none"> -At least 10 years of experience in the development, design, manufacturing, commissioning, operation, licensing and start-up of large inventory nuclear facilities; -Demonstrated experience in the safe handling of tritium systems and their technical requirements and safety

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functions on an industrial scale and in the safe handling of other hazardous and/or radioactive materials;
-Wide-ranging knowledge of gas processing technologies, isotope effects, vacuum technology, analytical methods, heterogeneous catalysis, gas (hydrogen)/solid interactions, and metal physics;
-Knowledge of all aspects of fusion science and technologies is preferred.

Project experience 8 to 10 years

Social skills Ability to work effectively in a multi-cultural environment
Ability to work in a team and to promote team spirit

Specific skills •Project experience:
-Experience in contract and project management, preferably in an international environment.
•People Coordination experience:
-Demonstrated experience working on large technical projects and coordinating tasks of large teams;
-Ability to lead a team and provide guidance to tritium experts in the DAs.

Languages English (Working)

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