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JOB DETAIL

Ref. IO1613 - 12/17/2015

Tritium Process Engineer - PED-023


Main job	Nuclear Power
Department	PED / Plant Engineering Department
Division	PED / Fuel Cycle Engineering Division
Section	PED / FCED / Tritium Plant Section
Job Family	Coordinating Engineer
Application Deadline (MM/DD/YYYY)	01/17/2016
Grade	P4
Direct employment	Required
Purpose	To perform and oversee the design and manufacturing of ITER Tritium Plant systems. The work involves requirements definition and implementation, technical trade studies, gas processing system design, value engineering, interface management, safety analysis, control systems, document preparation, and contract management. Work is performed in a formal, quality assured environment consistent with a nuclear facility.

Background information:
The ITER Tritium Plant processing loop consists of individual processing systems which work together to store and supply gases (including tritium) for fusion reactor operation, to purify hydrogen isotopes and to remove tritium from tritiated species, to separate hydrogen isotopes and to detritiate effluent gases. Systems are designed to ensure confinement of radioactive gases.

Main duties / Responsibilities

- Is responsible for functional analysis and optimization of Tritium Plant system requirements and design solutions considering safety, risks, costs, and other constraints;
 - Is responsible for compiling and maintaining design basis documentation and supporting documents using formal review procedures;
 - Manages functional and physical interfaces insuring systems consistency and that the design results in harmonized, practical operation;
 - Develops operational and maintenance strategies and design configurations;
 - Develops and establishes installation, testing, and commissioning plans;
 - Provides support for safety basis development and documentation;
 - Contributes to Fuel Cycle computer modelling;
 - Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan,
 - May be requested to be part of any of the project team dealing with the above activities and perform other duties upon management request;
 - Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.
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- Reports to the Tritium Plant Section Leader;
 - Interfaces through the Fuel Cycle Engineering Division Head with other Fuel Cycle groups;
 - In response to requests from the Director-General and/or Plant Engineering Department (PED) Head, or proactively, informs the DG/ PED Head of any important and urgent issues that cannot be handled by the concerned line management and may jeopardize the achievement of the Project's objectives.

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Measures of effectiveness	<ul style="list-style-type: none">• Capacity in design Tritium Plant according to French Rules and ASN prescriptions• Clarity and thoroughness of documents provided within the defined schedule;• Quality and timeliness of work products;• Ability to find practical, cost-effective, manageable and efficient solutions to issues;• Quality of communication with personnel associated with interfacing systems and management;• Ability to work effectively in teams and contribute to the overall success of the Fuel Cycle design/build project;• Performing work safely and with regard for safety in designs.
Project Construction Phase	
Level of study	Master or equivalent degree
Diploma	Chemical or nuclear engineering
Level of experience	At least 10 years
Technical experience/knowledge	<ul style="list-style-type: none">– Good understanding of gas processing technologies, vacuum technology, hazardous and radioactive material handling.– At least 10 years' experience relevant to engineering design, integration and commissioning of gas handling facilities;– At least 5 years' proven success in complicated chemical processing system design and fabrication;– Experience in large design/build projects through all phases, i.e. conceptual, preliminary and final design, followed by manufacturing, installation and commissioning;– Experience in writing clear, well-organized technical documents in English;– Good project management experience;– Good experience in chemical engineering technologies.– Experience in hydrogen processing systems is desirable.
Social skills	Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit
Others	<ul style="list-style-type: none">– MS Office standard (Word, Excel, PowerPoint, Outlook);– Skills in Computer Aided Design software (e.g. AVEVA).
Languages	English (Fluent)

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