

IO1336 Tritium Process Engineer CEP-032

General information

Job category	Standard
Status	Published
Department	DIP/Directorate for Central Engineering & Plant
Division	CEP / Fuel Cycle Engineering Division
Section	CEP / FCE / Tritium Plant Section

Job description

Main job	Engineering - Nuclear Power
Title of the position	Tritium Process Engineer CEP-032
Job family	Coordinating Engineer
Grade	P4
Direct employment	Not required
Purpose	<p>To perform Tritium Plant systems process and confinement systems design, including determination of system functions and requirements, selection and arrangement of technologies, interface management, process analysis, component sizing and specification, instrumentation and control system design, and design integration. Associated duties include design document preparation, specifying and monitoring contracts, safety analysis, schedule and budget management, quality assurance, and baseline design configuration control.</p>
Main duties / Responsibilities	<ul style="list-style-type: none">- Develops and maintains Tritium Plant systems design;- Responsible for proper system performance (including safety and technical), scope, costs and schedule;- Integrates designs with interfacing systems especially Fuel Cycle systems;- Applies value engineering principles to optimize designs;- Communicates design with internal and external personnel;- Specifies and directly manages contracts for out-sourced activities;- Develops, communicates and maintains design documentation including system requirements, design descriptions, drawings, calculations, operational plans, hazard analysis and supporting documents;- Prioritize and manage work scope and schedule to meet technical requirements;- Provides information necessary for advancement of the Tritium Plant safety basis;- Performs this work specifically for tritium confinement systems and atmosphere detritiation systems;- Performs other duties in support of the project schedule as described in the Detailed Work Schedule or Strategic Management Plan, as, for example, responsible officer for a system;- Performs other duties linked to the above purpose upon management request, as necessary;- Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.
Measures of effectiveness	<p>Report to the Tritium Plant Section Leader;</p> <p>Interfaces with other ITER project organizations including sections in the Fuel Cycle Division and the Domestic Agency (DAs);</p> <p>In response to requests from the Director-General and/or Director of Central Engineering & Plant (CEP) Directorate, or proactively, informs the DG/ Director of CEP Directorate 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.</p> <p>Work Products: Completes assignments as specified, on time and within budget. Particular attention will be given to progress on Tritium Plant level design which includes design progress, contract management, document preparation and project management. Progress will be measured by quality and quantity of work products;</p> <p>Team Contributions: Provides and receives contributions from fellow team members, and contributes to an overall productive work environment;</p> <p>Safety and Security: Performs work, generates designs and oversees the work of others with proper attention to safety and security.</p>

Applicant criteria

Level of study	At least Master's Degree or equivalent
Diploma	Chemical, nuclear engineering or relevant
Level of experience	At least 10 years
Technical experience	Experience with at least 3 years in successfully performing design, construction, installation, commissioning and/or operation of gaseous chemical processing systems, preferably hydrogen (tritium).
Project experience	4 to 5 years
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
Languages	English (Working)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	Knowledge of formal chemical processing plant design procedures and disciplines; Desirable is knowledge of multiple technical areas including chemical processing (e.g. catalysis, mass transfer, adsorption, plant design), tritium processing, tritium safety, nuclear licensing, vacuum systems and fusion technology.