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JOB DETAIL

Ref. IO2043 - 11/20/2018

Chemical Process Engineer PED-067

Main job	Chemical engineering
Department	PED / Plant Engineering Department
Division	PED / Fuel Cycle Engineering Division
Section	PED / FCED / Tritium Plant Section
Job Family	Engineer - 2
Application Deadline (MM/DD/YYYY)	12/31/2018
Grade	P3
Direct employment	Not required
Purpose	To perform and/or oversee design, manufacturing, testing, installation and commissioning activities of selected Tritium Plant sub-systems of ITER.. To ensure process plant solutions are comprehensive and that the defined requirements are achieved and clearly demonstrated.
Main duties / Responsibilities	Produces and monitors Tritium Plant sub-system designs including overall system design, component selection, analysis (e.g. transient) and layout; Prepares and/or reviews technical specifications for Tritium Plant sub-system equipment, in accordance with the defined requirements; Provides and/or reviews design solutions for Tritium Plant sub-system equipment; Performs functional analysis of the Tritium Plant sub-System to check that the design fulfils the requirements of full plant lifecycle including testing, commissioning, operation, maintenance and decommissioning; ; Prepares and maintains design documents, in addition to communicating them with relevant stakeholders; Follows-up and reviews the design, manufacturing, testing, installation and commissioning activities of Tritium Plant sub-system components and systems, including those performed by contractors; Ensures that work is performed in accordance with quality assurance procedures; Ensures quality control is performed effectively for equipment supply and installation; Prepares technical specifications and follows procurement activities including subcontractors and equipment to ensure successful selection and delivery; May be requested to be part of any of project/construction teams and to perform other duties in support of the project schedule; Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics. May be required to work outside ITER Organization reference working hours, including nights, weekends and public holidays.
Measures of effectiveness	Reports to the Tritium Plant Section Leader; In response to requests from the Director-General and/or 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; Produces high quality, clear and thorough documents within the defined schedule; Produces sub-system designs in a timely manner; Ensures clear demonstration of the defined requirements can be achieved with the proposed design solutions that are coherent with the overall ITER schedule; Provides practical, cost-effective, manageable and efficient solutions to issues; Communicates efficiently with personnel associated with interfacing systems and management; Works effectively in teams and contributes to the overall success of the Fuel Cycle design/build project; Performs work safely and with regard for safety in designs. SAP Id: 50004515
Level of study	Master or equivalent degree
Diploma	Nuclear, Chemistry, Chemical Engineering or other
Level of experience	At least 8 years
Technical experience/knowledge	At least 8 years' experience relevant to engineering design, integration, installation and maintenance of gas processing systems;

	At least 5 years' experience in nuclear industry or relevant technical projects within hazardous environments; Experience with tritium and/or hydrogen processing is a strong advantage; Experience in undertaking fire & explosion risk assessment and implementing solutions Experience in large design/build projects throughout all phases, i.e. conceptual, preliminary and final design, followed by manufacturing, installation and commissioning. Good understanding of technologies relevant for or applied in Tritium Plant systems; Knowledge and practical experience safe handling of tritium and radiologically contaminated materials typical for fusion is a strong advantage;
General skills	Extensive experience in similar jobs (involving similar work responsibilities) and/or additional training certificates in relevant domains may be considered a reasonable substitute for the required educational degree; Ability to dialogue with a wide variety of contributors and stakeholders; Ability to adjust communication content and style to deliver messages to work effectively in a multi-cultural environment; Ability to persist in the face of challenges to meet deadlines with high standards; Ability to gather multiple and diverse sources of information to define problems accurately before moving to proposals; Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.
Others	Working knowledge of French would be an advantage due to the frequent interaction with the French Safety Authority; MS Office standard (Word, Excel, PowerPoint, Outlook) Good knowledge of CAD software (e.g. AVEVA) Analysis software, e.g. ANSYS, and Process Simulation software (e.g. ASPEN) would be advantageous.
Languages	English (Fluent) French (Working)