

# IO2043 Chemical Process Engineer PED-067

## General information

Job category	Standard
Status	Published
Department	PED / Plant Engineering Department
Division	PED / Fuel Cycle Engineering Division
Section	PED / FCED / Tritium Plant Section

## Job description

Main job	Engineering - Chemical engineering
Title of the position	Chemical Process Engineer PED-067
Job family	Engineer - 2
Grade	P3
Direct employment	Not required
Purpose	<p>To perform and/or oversee design, manufacturing, testing, installation and commissioning activities of selected Tritium Plant sub-systems of ITER..</p> <p>To ensure process plant solutions are comprehensive and that the defined requirements are achieved and clearly demonstrated.</p>
Main duties / Responsibilities	<p>Produces and monitors Tritium Plant sub-system designs including overall system design, component selection, analysis (e.g. transient) and layout;</p> <p>Prepares and/or reviews technical specifications for Tritium Plant sub-system equipment, in accordance with the defined requirements;</p> <p>Provides and/or reviews design solutions for Tritium Plant sub-system equipment;</p> <p>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; ;</p> <p>Prepares and maintains design documents, in addition to communicating them with relevant stakeholders;</p> <p>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;</p> <p>Ensures that work is performed in accordance with quality assurance procedures;</p> <p>Ensures quality control is performed effectively for equipment supply and installation;</p> <p>Prepares technical specifications and follows procurement activities including subcontractors and equipment to ensure successful selection and delivery;</p> <p>May be requested to be part of any of project/construction teams and to perform other duties in support of the project schedule;</p> <p>Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p> <p>May be required to work outside ITER Organization reference working hours, including nights, weekends and public holidays.</p>
Measures of effectiveness	<p>Reports to the Tritium Plant Section Leader;</p> <p>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;</p> <p>Produces high quality, clear and thorough documents within the defined schedule;</p> <p>Produces sub-system designs in a timely manner;</p> <p>Ensures clear demonstration of the defined requirements can be achieved with the proposed design solutions that are coherent with the overall ITER schedule;</p> <p>Provides practical, cost-effective, manageable and efficient solutions to issues;</p> <p>Communicates efficiently with personnel associated with interfacing systems and management;</p> <p>Works effectively in teams and contributes to the overall success of the Fuel Cycle design/build project;</p> <p>Performs work safely and with regard for safety in designs.</p>
	SAP Id: 50004515

## Applicant criteria

Level of study	Master or equivalent degree
Diploma	Nuclear, Chemistry, Chemical Engineering or other
Level of experience	At least 8 years
Technical experience/knowledge	<p>At least 8 years' experience relevant to engineering design, integration, installation and maintenance of gas processing systems;</p> <p>At least 5 years' experience in nuclear industry or relevant technical projects within hazardous environments;</p> <p>Experience with tritium and/or hydrogen processing is a strong advantage;</p> <p>Experience in undertaking fire &amp; explosion risk assessment and implementing solutions</p> <p>Experience in large design/build projects throughout all phases, i.e. conceptual, preliminary and final design, followed by manufacturing, installation and commissioning.</p> <p>Good understanding of technologies relevant for or applied in Tritium Plant systems;</p> <p>Knowledge and practical experience safe handling of tritium and radiologically contaminated materials typical for fusion is a strong advantage;</p> <p>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;</p> <p>Ability to dialogue with a wide variety of contributors and stakeholders;</p>
General skills	<p>Ability to adjust communication content and style to deliver messages to work effectively in a multi-cultural environment;</p> <p>Ability to persist in the face of challenges to meet deadlines with high standards;</p> <p>Ability to gather multiple and diverse sources of information to define problems accurately before moving to proposals;</p> <p>Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.</p>
Languages	<p>English (Fluent)</p> <p>French (Working)</p> <p>Working knowledge of French would be an advantage due to the frequent interaction with the French Safety Authority;</p>
Others	<p>MS Office standard (Word, Excel, PowerPoint, Outlook)</p> <p>Good knowledge of CAD software (e.g. AVEVA)</p> <p>Analysis software, e.g. ANSYS, and Process Simulation software (e.g. ASPEN) would be advantageous.</p>