

# IO1451 Fuel Cycle System Engineer PSE-162

## General information

Job category	Standard
Status	Published
Department	DIP/Department for ITER Project
Division	PSE/Fuel Cycle Engineering Division
Section	PSE/ FCED/ Tritium Plant Section

## Job description

Main job	Engineering - Chemical engineering
Title of the position	Fuel Cycle System Engineer PSE-162
Job family	Engineer - EC
Grade	P1
Direct employment	Not required
Purpose	<p>To support the integration of the ITER Fuel Cycle comprising the Tritium Plant, Fuelling &amp; Wall Conditioning Systems, and Vacuum Systems;</p> <p>To support the management of Fuel Cycle functional and physical interfaces, both internal and external;</p> <p>To develop Fuel Cycle operations and maintenance plans, and to contribute to control and automation strategies.</p> <p>Ensures functional integration of the Fuel Cycle;</p> <p>Coordinates systems functional requirements and implements design and cost trade studies;</p> <p>Responsible for Functional Analysis and description of the Fuel Cycle;</p> <p>Manages Fuel Cycle functional and physical interfaces, systems consistency and assures that the design results in harmonized operation;</p> <p>Develops operational strategies and design configurations over the HH/He, DD and DT phases of ITER, including operations and maintenance plans for the Fuel Cycle;</p> <p>Develops and establishes commissioning and testing schedules considering the ITER Research Plan;</p> <p>Coordinates RAMI studies at the level of the Fuel Cycle;</p> <p>Provides support in licensing activities and in Fuel Cycle hazard analysis;</p> <p>Implements measures for tritium inventory control;</p> <p>May be required to work shifts during the ITER assembly and commissioning phase;</p>
Main duties / Responsibilities	<p>Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan;</p> <p>Performs other duties linked to the above purpose upon management request, as necessary;</p> <p>Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p> <p>Under close functional supervision from the Plant Systems Chief Engineer, reports to the Tritium Plant Section Leader;</p> <p>Liaises with Fuel Cycle modelling and the system responsible officers;</p> <p>Interfaces through the Fuel Cycle Engineering Division Head with other Fuel Cycle groups;</p> <p>In response to requests from the Director-General (DG) and/or Director of Plant System Engineering (PSE) Directorate, or proactively, informs the DG/Director 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>
Measures of effectiveness	<p>Clarity and thoroughness of documents;</p> <p>Quality and timeliness of work products;</p> <p>Ability to find practical, cost-effective, manageable and efficient solutions to issues;</p> <p>Quality of communication with personnel associated with interfacing systems and management;</p> <p>Ability to work effectively in teams and contribute to the overall success of the Fuel Cycle design/build project;</p> <p>Performing work safely and with regard for safety in designs;</p> <p>Supporting ITER Fuel Cycle design and interfaces with other systems.</p>

**Applicant criteria**

Level of study	Master or equivalent degree
Diploma	Nuclear Engineering, Chemical Eng. or other
Level of experience	At least 2 years
Technical experience	At least 2 years' experience in system engineering, integration, commissioning and operation of gas handling facilities; Basic experience in large project integration through all phases, i.e. conceptual and detailed design, manufacturing, installation and integration, scheduling of installation and commissioning; Basic experience in systems comprising high integrity pipes and components.
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	Basic understanding of gas processing technologies, vacuum technology, hazardous and radioactive material handling; Knowledge and practical experience in gas handling, in vacuum and pumping technologies, and in cryogenics.
Languages	English (Working)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)