## the way to new energy



**JOB DETAIL** 

Ref. IO1451 - 11/14/2014

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Fuel Cycle System Engineer PSE-162		
Main job	Chemical engineering	
Department	DIP/Department for ITER Project	
Division	PSE/Fuel Cycle Engineering Division	
Section	PSE/ FCED/ Tritium Plant Section	
Job Family	Engineer - EC	
Application Deadline	12/14/2014	
Grade	P1	
Direct employment	Not required	
Purpose	To support the integration of the ITER Fuel Cycle comprising the Tritium Plant, Fuelling & Wall Conditioning Systems, and Vacuum Systems; To support the management of Fuel Cycle functional and physical interfaces, both internal and external; To develop Fuel Cycle operations and maintenance plans, and to contribute to control and automation strategies	
Main duties / Responsibilities	Ensures functional integration of the Fuel Cycle; Coordinates systems functional requirements and implements design and cost trade studies; Responsible for Functional Analysis and description of the Fuel Cycle; Manages Fuel Cycle functional and physical interfaces, systems consistency and assures that the design results in harmonized operation; 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; Develops and establishes commissioning and testing schedules considering the ITER Research Plan; Coordinates RAMI studies at the level of the Fuel Cycle; Provides support in licensing activities and in Fuel Cycle hazard analysis; Implements measures for tritium inventory control; May be required to work shifts during the ITER assembly and commissioning phase; Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan; 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.	
	Under close functional supervision from the Plant Systems Chief Engineer, reports to the Tritium Plant Section Leader; Liaises with Fuel Cycle modelling and the system responsible officers; Interfaces through the Fuel Cycle Engineering Division Head with other Fuel Cycle groups; 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.	
Measures of effectiveness	Clarity and thoroughness of documents; 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:	

Supporting ITER Fuel Cycle design and interfaces with other systems.

	Project Construction Phase
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
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
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)

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For more information about ITER, visit our web site : http://www.iter.org