

# IO1427 Fuelling System Engineer PSE-141

## General information

Job category	Standard
Status	Published
Department	DIP/Department for ITER Project
Division	PSE/Plant Engineering Division
Section	PSE/ FCED/ Fuelling & Wall Conditioning Section

## Job description

Main job	Engineering - Mechanics
Title of the position	Fuelling System Engineer PSE-141
Job family	Engineer - 2
Grade	P3
Direct employment	Not required
Purpose	<p>To coordinate and integrate the activities for R&amp;D, design, procurement, installation and commissioning of the ITER Disruption Mitigation System (DMS) and the Pellet Injection System (PIS) over their life cycle.</p> <p>To ensure proper design, manufacturing, testing, installation and commissioning activities of DMS and PIS through systems engineering processes.</p> <p>To manage the DMS and PIS integration issues specifically relating to the port plug integration for the DMS and the Quality Program for Protection Important Components (PIC) and safety functions.</p> <p>To manage functional and physical interfaces with other systems and develop DMS and PIS operation and maintenance plans.</p>
Main duties / Responsibilities	<p>Responsible for R&amp;D, design and qualification of DMS and PIS;</p> <p>Responsible for establishing and maintaining requirements for DMS and PIS and for their interfaces;</p> <p>Responsible for development and updating of the design, and for Functional Analysis of the DMS and PIS;</p> <p>Responsible for preparing, maintaining and communicating design documents;</p> <p>Follows up design, manufacturing, testing, installation and commissioning activities of DMS and PIS, including those performed by the Domestic Agencies (DAs) and their contractors;</p> <p>Integrates the DMS in diagnostics port plugs and port interspaces, the PIS flight tubes in the VV and the PIS casks in port cells;</p> <p>Ensures the design, development and scheduling of DMS and PIS, including controlling functional and physical interfaces of DMS and PIS with other systems and components;</p> <p>Provides support in licensing activities and DMS and PIS hazard analysis;</p> <p>Follows and maintains the schedule for the DMS and PIS;</p> <p>Provides technical support within the FWC section to maintain and document the internal and external interfaces respectively for the DMS and PIS;</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Schedule or 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>Reports to the Fuelling and Wall Conditioning Section Leader;</p> <p>Acts as an interface between other groups in the Fuel Cycle Engineering Division regarding drawings and CAD administration;</p> <p>Interfaces with other Departments/Directorates as required by the fuelling system design, in particular with the CAD &amp; Design Coordination Division;</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</p>

Measures of effectiveness	issues that cannot be handled by the concerned line management and may jeopardize the achievement of the Project's objectives.
	Clarity and thoroughness of documents on R&D, design, fabrication, installation and commissioning of the DMS and PIS;
	Quality and timeliness of work products throughout the all phases of the DMS and PIS; Ability to find practical, cost-effective, manageable and efficient solutions to issues; Establishment of mechanisms for DMS and PIS integration and interfaces with other ITER systems; 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; Maintaining effective communication with all interfacing system Responsible Officers of the IO and the DAs on tokamak fuelling, disruption mitigation and relating physics issues.
Project Construction Phase ID SAP: 50000046	

## Applicant criteria

Level of study	Master or equivalent degree
Diploma	Mechanical, nuclear or process eng. or other
Level of experience	At least 8 years
Technical experience	At least 8 years' experience in managing the design, construction, installation, commissioning and operation of vacuum, cryogenic or gas handling systems; Appropriate experience in managing a project.
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	Knowledge of hydrogen safety, nuclear licensing, cryogenic system, vacuum pumping system or plasma physics would be advantageous. MS Office Visio knowledge.
Languages	English (Working)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	Familiarity to CAD tools would be an advantage.