

# IO2011 Fuelling System Technical Engineer PED-231

## General information

Job category	Standard
Status	Published
Department	PED / Plant Engineering Department
Division	PED / Fuel Cycle Engineering Division
Section	PED / FCED / Fuelling & Wall Conditioning Section

## Job description

Main job	Engineering - Fusion
Title of the position	Fuelling System Technical Engineer PED-231
Job family	Engineer - 1
Grade	G6
Direct employment	Required
Purpose	<p>To perform the mechanical design and integration of the Disruption Mitigation System (DMS) utilities such as cryogenic distribution lines and gas feed lines, including the development of documentation necessary for the procurement arrangements, interface management, support the system procurement.</p> <p>To integrate DMS utilities in the tokamak complex, including physical and functional interfaces management.</p> <p>To implement the DMS R&amp;D Work Plan and support the International DMS Task Force.</p>
Main duties / Responsibilities	<p>Undertakes the design and development of the DMS utilities, including controlling the functional and physical interfaces of DMS utilities with other systems and components whilst taking into account the time schedule;</p> <p>Responsible for checking the quality of the Computer Aided Design (CAD) with respect to DMS and its utilities;</p> <p>Supervises and monitors some of the Domestic Agencies' (DA) or sub-contractors' progress with regards to the engineering, R&amp;D activities and procurement of the DMS;</p> <p>Provides assistance when appropriate to the DAs, sub-contractors and ITER groups to carry-out engineering, R&amp;D, interface control and procurement work;</p> <p>Participates in writing and reviewing technical documentations, such as Technical Specifications (TS), System Requirement Documents (SRD), Interface Control Documents (ICD), Design Description Documents (DDD) and other documents necessary for the procurement arrangements;</p> <p>Implements the DMS R&amp;D Work Plan and supports the International DMS Task Force;</p> <p>Supports Fuelling and Wall Conditioning (FWC) Section in the transversal scopes for the Section;</p> <p>Supports the machine assembly and commissioning teams as a technical responsible engineer;</p> <p>May be requested to be part of any of the 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> <p>Implements the technical control of the Protection Important Activities, as well as their propagation to the entire supply chain;</p> <p>Special notice: May be requested to work on beryllium-containing components. In this case, you will be required to follow the established ITER Beryllium Management Program for working safely with beryllium. Training and support will be provided by the ITER Organization.</p> <p>Reports to the Fuelling &amp; Wall Conditioning Section Leader;</p> <p>In response to requests from the Director-General and/or the Head of the Plant Engineering Department (PED), 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>

Measures of effectiveness	<p>Assures the completion of the activities listed in the above duties in terms of Engineering, R&amp;D, procurement and implementation in accordance with the required time schedule and within the authorized budget;</p> <p>Performs work safely and securely;</p> <p>Resolves efficiently any design issues for FWC;</p> <p>Communicates and collaborates effectively and harmoniously with all ITER staff, DAs and contractors;</p> <p>Contributes effectively on procurement activities within the aforementioned scope;</p> <p>Writes and reviews technical specifications and documents in a timely manner.</p> <p>Project construction phase</p>
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## Applicant criteria

Level of study	Bachelor or equivalent degree
Diploma	Mechanical or electric engineering or relevant
Level of experience	At least 5 years
Technical experience/knowledge	<p>At least 5 years' experience in performing the design, construction, installation, commissioning and operation of fuelling systems in fusion devices or similar;</p> <p>Knowledge of tritium safety, nuclear licensing, cryogenic system, vacuum pumping system and plasma physics is advantageous;</p> <p>Experience in coordinating activities and managing interfaces;</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>
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	<p>Ability to facilitate dialogue and negotiate with a wide variety of contributors and stakeholders;</p> <p>Ability to listen and adjust communication content and style to deliver messages;</p> <p>Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.</p> <p>Ability to persist in the face of challenges to meet deadlines with high standards.</p>
Languages	English (Fluent)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	<p>Experience with CAD (CATIA and AVEVA PDMS) software.</p> <p>Experience with Structural analysis code such as ANSYS is highly desirable.</p>