

IO1933 Fuelling System Engineer - PED-153

General information

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

Job description

Main job	Engineering - Mechanics
Title of the position	Fuelling System Engineer - PED-153
Job family	Engineer - 1
Grade	P2
Direct employment	Required
Purpose	<p>To produce the process of Fuelling and Wall Conditioning (FWC) System together with other process and components and to develop system operational and control schemes.</p> <p>To produce the Fuelling and Wall Conditioning system engineering activities for design, R&D, procurement, installation and commissioning of the FWC System.</p> <p>To develop the design and system integration issues relating to the port plug and port cell integration for the FWC System, mainly Disruption Mitigation System (DMS). This includes the work defined in the DMS R&D Work Plan (TBC).</p>
Main duties / Responsibilities	<ul style="list-style-type: none">-Responsible for the process integration of FWC System and its utilities, mainly those for DMS;-Controls process interfaces of FWC System with other systems and components, such as tritium plant, vacuum system, cryoplant, cooling water, power supply, CODAC, etc.;-Assures control of physical interfaces of FWC Systems with building, tokamak machines such as vacuum vessel, in-vessel components, port plug facilities, etc.;-Supervises the Domestic Agency's (DA) progress in the design, R&D activities, contracts and procurement of the FWC System;-Provides assistance to DA's and ITER Groups to carry out design, R&D, interface control and procurement;-Provides technical support within the FWC Section to maintain and document the internal and external interfaces respectively for the FWC System;-May be requested to be part of any of the project/construction teams and to perform other duties in support of the project schedule;-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics;-May be required to work outside normal working hours, including nights, weekends and public holidays.
Measures of effectiveness	<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> <ul style="list-style-type: none">-Reports to the Fuelling & Wall Conditioning Section Leader;-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.-Assure high quality completion of the activities of Engineering, R&D, procurement and implementation according the required time schedule and within the authorized budget;-Perform work safely and securely;-Resolve efficiently design and interfaces issues for FWC;-Communicate and collaborate effectively and harmoniously with ITER staff, DAs and contractors.
	Project Construction Phase

Applicant criteria

Level of study	Bachelor or equivalent degree
Diploma	Mechanical or electric engineering field or other
Level of experience	At least 7 years
Technical experience/knowledge	<ul style="list-style-type: none"> -At least 7 years' experience in performing the design, construction, installation, commissioning and operation of fuelling systems in fusion devices or similar, including 2 years of project management experience; -Knowledge of tritium safety, nuclear licensing, cryogenic system, vacuum pumping system and plasma physics is advantageous; -Experience in coordinating activities and managing interfaces. <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	<ul style="list-style-type: none"> -Ability to facilitate dialogue and negotiate with a wide variety of contributors and stakeholders; -Ability to listen and adjust communication content and style to deliver messages; -Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.
Languages	English (Fluent)
Specific skills	Computer Aided Design, MS Office professional (Access, Project, Publisher, Visio), MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	<ul style="list-style-type: none"> -Good knowledge of Microsoft office standard and beyond (Word, Excel, PowerPoint, Outlook, Visio, Project); -Capability with Computer Aided Design (CAD with special attention to AVEVA PDMS) software is highly desirable