

IO2016 Mechanical Engineer PED-234

General information

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| 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

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| Main job | Engineering - Mechanics |
| Title of the position | Mechanical Engineer PED-234 |
| Job family | Engineer - 1 |
| Grade | P2 |
| Direct employment | Not required |
| Purpose | <p>To manage the integration of the Disruption Mitigation System (DMS) in the dedicated port plugs, port interspaces and port cells;</p> <p>To manage the procurement of the port plug, port interspace support structure (PISS) and port cell support structure (PSS);</p> <p>To manage the development of documentation necessary for the procurement arrangements, interface management and to supervise the system procurement;</p> <p>To implement the DMS R&D Work Plan and support the International DMS Task Force.</p> |
| Main duties / Responsibilities | <p>Ensures the integration of the baseline, upgraded DMS and alternative DMS technologies in the port plugs, PISS and PSS, including controlling the functional and physical interfaces with them;</p> <p>Supervises the design, procurement and scheduling of port plug, PISS and PSS;</p> <p>Participates in writing and reviewing technical documentations, such as Technical Specifications, System Requirement Documents, Interface Control Documents, Design Description Documents, and other documents necessary for the procurement arrangements;</p> <p>Implements the DMS R&D Work Plan in addressing the shattered pellets injection configuration, innovative technology and lay out as well as supports the International DMS Task Force;</p> <p>Supports the Machine Assembly and Commissioning teams for the above mentioned activities;</p> <p>Implements the technical control of the Protection Important Activities, as well as their propagation to the entire supply chain;</p> <p>May be required to work outside ITER Organization reference working hours, including nights, weekends and public holidays;</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> |
| 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> <p>Reports to the Fuelling & 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> <p>Assures high quality completion of the activities of Engineering, R&D, procurement and implementation according the required time schedule and within the authorized budget;</p> <p>Performs work safely and securely;</p> <p>Resolves efficiently design and interfaces issues for FWC;</p> <p>Communicates and collaborate effectively and harmoniously with ITER staff, DAs and contractors;</p> <p>Produces accurate technical documentation;</p> <p>Reviews technical documentation in accordance with established guidance and within the</p> |

project schedule;
Contributes effectively on procurement activities within the aforementioned scope.

Project Construction Phase

Applicant criteria

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| Level of study | Master or equivalent degree |
| Diploma | mechanical or electrical engineering |
| Level of experience | At least 5 years |
| Technical experience/knowledge | At least 5 years' experience in performing the design, construction, installation, commissioning and operation of fuelling systems in fusion devices or similar, including project management experience; Experience in coordinating activities and managing interfaces; Knowledge of tritium safety, nuclear licensing, cryogenic system, vacuum pumping system and plasma physics is advantageous |
| Social skills | Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit |
| General skills | Ability to work effectively in an international environment; Ability to dialogue and negotiate with a wide variety of contributors and stakeholders; Ability to persist in the face of challenges to meet deadlines with high standards; Ability to gather multiple and diverse sources of information to understand/define problems accurately before moving to proposals/solutions.; |
| Languages | English (Fluent) |
| Specific skills | CATIA, Computer Aided Design, MS Office standard (Word, Excel, PowerPoint, Outlook) |
| Others | Good knowledge of Microsoft office standard and beyond (Word, Excel, PowerPoint, Outlook, Visio, Project); Capability with Computer Aided Design (CAD) in particular with AVEVA PDMS software is highly desirable. |