

# IO1409 Maintenance Engineer CIE-312

## General information

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| Job category | Standard  |
| Status       | Published                                       |
| Department   | DIP/Directorate for Plant System Engineering    |
| Division     | PSE/Plant Engineering Division                  |
| Section      | PSE/ PED/ Maintenance & Remote Handling Section |

## Job description

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| Main job                       | Engineering - Mechanics   |
| Title of the position          | Maintenance Engineer CIE-312  |
| Job family                     | Engineer - 2  |
| Grade                          | P3  |
| Direct employment              | Not required  |
| Purpose                        | <p>To develop and implement the ITER machine and plant maintenance policy and maintenance plan;<br/>To establish the principles and basic architecture of processes, procedures and related applicable documents for the maintenance of the structures, systems and components (SSC's) of the ITER nuclear facility.</p> <p>Manages the integration of all maintenance processes in ITER;<br/>Compiles SSC maintenance procedures and maintenance records associated with each SSC (systems, structures and components), in collaboration with the SSC Responsible Officers;<br/>Manages and coordinates the activities of the Maintenance Working Group, to assess and approve the SSC maintenance process and establish their priorities in relation to the Project cost, schedule, logistics;<br/>Implements and manages the ITER Maintenance Directory Software Tool;<br/>Implements the maintenance recommendations included in the Preliminary Safety Report taking into account the French nuclear regulatory framework for nuclear basic facilities (INB);<br/>Ensures that maintenance related to safety importance class (SIC) systems and components that shall comply with French regulations;<br/>Ensures that SSC performing a safety function are subject to a controlled and scheduled maintenance plan (including examination, inspection and testing);<br/>Enforces the mandatory requirements for in service inspection and protection of occupational health and safety;<br/>Enforces the policies, processes and procedures required to ensure that the Structures, Systems and Components design is compatible with the ITER project maintenance capability;<br/>Maximizes maintenance performance in accordance with Reliability, Availability, Maintainability &amp; Inspectability (RAMI principles),<br/>Implements the actions needed to ensure that the ITER structures, systems and components design meets the maintenance requirements of the ITER machine, through interaction with the IO engineers, with Domestic Agencies and industries;<br/>Manages external contracts for the execution of maintenance related studies;<br/>Provides regular and ad-hoc status and summary reports about the implementation of the ITER maintenance strategy;</p> |
| Main duties / Responsibilities | <p>Performs other duties in support of the project schedule as described in the Detailed Work Breakdown Structure Schedule or Strategic Management Plan;<br/>Performs other duties linked to the above purpose upon management request, as necessary;<br/>Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p> <p>Reports to Maintenance &amp; Remote Handling Section Leader;<br/>Acts as an interface between with all other ITER Directorates and Departments, responsible for the different SSC;<br/>In response to requests from the Director-General and/or Directorate for Plant System Engineering (PSE) Director, or proactively, informs the DG/PSE Directorate Director of any important and urgent issues that cannot be handled by the concerned line management and may</p>  |

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| Measures of effectiveness | jeopardize the achievement of the Project's objectives.  |
|                           | Communicates with the designers of ITER machine components in an efficient way to optimize both component and maintenance equipment design and process integration and performance; Controls and maintains the cost and schedule for the proper execution of the maintenance equipment procurement activities; |
|                           | Effectively communicates with the nuclear safety authorities, DAs and industry to progress on maintenance systems design activities, maintenance process integration and maintenance equipment procurement processes;<br>Enforces and maintains the ITER Quality Assurance Program and safety requirements.    |
|                           | SAP id 50001091<br>Project Construction Phase  |

Applicant criteria

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| Level of study       | At least Master's Degree or equivalent   |
| Diploma              | Mechanical Engineering or System Engineering   |
| Level of experience  | At least 8 years   |
| Technical experience | At least 8 years' experience working on the maintenance of large industrial/process plant and/or nuclear installations is required;  |
|                      | Knowledge of the maintenance process requirements and maintenance process management for at least three of the following systems: mechanical systems, cooling water systems, cryogenic systems, magnets & power distribution (resistive and superconducting magnets, etc.), or civil structures; |
|                      | Experience in preparing and monitoring design, research and/or manufacturing contracts in an international environment;  |
|                      | Demonstrable experience in managing and integrating maintenance processes;   |
|                      | At least 5 years' experience of nuclear regulatory requirements applying to the maintenance of nuclear installations is required;  |
|                      | Experience in dealing with nuclear safety authorities is required;   |
|                      | Experience in complex systems' requirements and interfaces assessment, maintenance requirements definition and maintenance system management is required.  |
|                      |  |
| Social skills        | Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit   |
| General skills       | Basic Project Management experience is required.   |
| Languages            | English (Working)  |
| Specific skills      | MS Office standard (Word, Excel, PowerPoint, Outlook)  |