

# IO1268 Machine Operation Responsible Officer CIE-249

## General information

Job category	Standard
Status	Confirmed
Department	DIP/Directorate for Central Integration & Engineering
Division	CIE / Assembly & Operations Division
Section	CIE / AOP /Commissioning & Operations Section

## Job description

Main job	Engineering - Generalist
Title of the position	Machine Operation Responsible Officer CIE-249
Job family	System Engineer - 2
Grade	P4
Direct employment	Not required
Purpose	<p>To support the Commissioning and Operations Section Leader in all matters relating to ITER Machine Operation.</p> <p>Ensures coordination between the Commissioning and Operations Section, other ITER Organization (IO) Directorates and external stakeholders with regard to machine and plasma operation issues for the ITER construction phase, in particular regarding central instrumentation &amp; control, interlock and safety systems and collaboration with Plasma Operations;</p> <p>Ensures the specification and oversees implementation of adequate protection and control systems to protect the ITER Machine and maintain safe operations;</p> <p>Defines and produces specifications and procedures for ITER machine operation needs in the following areas:</p> <ul style="list-style-type: none"><li>Concept of Operations;</li><li>Operating procedures and staffing;</li><li>Command-control, interlock, safety and plasma control systems, and the associated man machine interfaces;</li></ul>
Main duties / Responsibilities	<p>Instrumentation for overall systems in relation to the needs for machine operation, technical parameter measurements, real time control loops and equipment protection;</p> <p>Functional requirements of systems and facilities for machine operations (Control Rooms, man machine interfaces, communications, test facilities, systems for testing and commissioning);</p> <p>Human Factors.</p> <p>Supports the Head of Section in managing testing, commissioning and operation activities for all matters relating to machine operations;</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the 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 Commissioning and Operations Section Leader;</p> <p>Acts as an interface between the Assembly &amp; Operations Division, other ITER Organization Directorates and external stakeholders concerning machine operations issues;</p> <p>In response to requests from the Director-General and/or Director of CIE Directorate, or proactively, informs the DG/ Director of CIE Directorate 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>Aids the ITER Project to define and establish operations personnel, interfaces, tools and procedures.</p> <p>Contributes to the definition and realization of the ITER Concept of Operations;</p> <p>Supports the Head of Section in managing the testing and commissioning of ITER systems and in ensuring the ITER machine enters into Operation successfully.</p>
	ID SAP S 50000623

## Applicant criteria

Level of study	PhD or equivalent degree
Diploma	Nuclear Physics, Engineering field.
Level of experience	At least 8 years Experience in operations of fusion devices with a broad experience in plasma control, command-control, data processing, instrumentation and plasma engineering; At least 5 years' experience in the management of fusion device operations, including control room and site control responsibilities; Experience in nuclear devices would be an advantage.
Technical experience	5 to 10 years' experience in coordinating teams; At least 5 years' experience in coordinating plasma/machine operations activities. Knowledge of plasma engineering and physics principles relating to magnetic fusion devices, systems necessary to produce plasma discharges and associated real time control loops as well as machine protection interlocks and safety systems; Knowledge of basic nuclear safety rules and security aspects (access, radioprotection, dose limits, waste, etc.); Knowledge of ITER would be an advantage.
Social skills	5 to 7 years' experience in Project Management is required. Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	Ability to provide effective leadership.
Languages	English (Working)
Others	Experience in computer systems and man-machine interfaces required for machine operations and control rooms.