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Ref. IO1105 - 12/16/2010

ITER Machine Operation Senior Officer CIEPRO059

Main job	Fusion
Department	DIP/Directorate for Central Integration & Engineering
Division	CIE / Assembly & Operations Division
Section	CIE / AOP / Operations Section
Job Family	Project engineering
Application Deadline	1/16/2011
Grade	P5
Direct employment	Not required
Purpose	To support the Assembly & Operations Division Head in all matters relating to ITER Machine Operation.
Main duties / Responsibilities	<ul style="list-style-type: none"> •Ensures coordination between the Assembly & Operations Division and the other ITER Organization (IO) Directorates with regard to machine and plasma operation issues for the ITER construction phase, in particular regarding central instrumentation & control, interlock and safety systems and collaboration with Plasma Operations; •Ensures the specification and oversees implementation of adequate protection and control systems to protect the ITER Machine and maintain safe operations; •Defines and produces specifications and procedures for ITER machine operation needs in the following areas: <ul style="list-style-type: none"> -Operating procedures and staffing; -Command-control, interlock, safety and plasma control systems, and the associated man-machine interfaces; -Instrumentation for overall systems in relation to the needs for machine operation, technical parameter measurements, real time control loops and equipment protection; -Functional requirements of systems and facilities for machine operations (Control Rooms, man-machine interfaces, communications, test facilities, systems for testing and commissioning); -Controlled access in buildings. •Participates in the testing, commissioning and operation activities for all matters relating to machine operations; •Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.
Measures of effectiveness	<ul style="list-style-type: none"> •Successfully acts as an interface between the Assembly & Operations Division and other ITER Organization Directorates concerning machine operations issues; •Successfully aids the ITER Project to define and establish operations personnel, interfaces, tools and procedures.
Level of study	Master or equivalent degree
Diploma	Nuclear Physics, Engineering
Level of experience	At least 10 years
Technical experience	<ul style="list-style-type: none"> -At least 10 years' experience in machine and plasma operations management of fusion devices, preferably for different types of facilities with an experience in command-control, data processing, instrumentation and plasma engineering; -Knowledge of plasma engineering principles relating to the main magnetic fusion device systems and services necessary to produce plasma discharges and the associated real time control loops for equipment and human protection; -Knowledge of basic nuclear safety rules and security aspects (access, radioprotection, dose limits, waste, etc.); -Knowledge of ITER and magnetic fusion would be an advantage; -Experience in technical risk management would be an advantage.
Project experience	5 to 7 years

- Social skills** Ability to work effectively in a multi-cultural environment
Ability to work in a team and to promote team spirit
- Specific skills** Project experience:
-Proven ability in plasma operation, including interfaces with control system, machine and facility;
-Ability to manage a control room and site control facilities;
-At least 5 years experience in coordinating plasma/machine operations activities.
- Languages** English (Working)

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