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Ref. IO1114 - 12/6/2010

Power Electronic Officer - CEP 026

Main job	Electronics
Department	DIP/Directorate for Central Engineering & Plant
Division	CEP / Electrical Engineering Division
Section	CEP / EED / Coil Power Supply and Distribution Section
Job Family	Project engineering
Application Deadline	12/31/2010
Grade	P2
Direct employment	Not required
Purpose	To supervise the design, procurement, construction, factory tests, installation, on-site acceptance tests, commissioning and start up of the ITER Alternative Current/Direct Current (AC/DC) coil power converters.
Main duties / Responsibilities	<ul style="list-style-type: none"> -Develops the design and integration of the ITER AC/DC power converters; -Manages the interfaces within the components of the AC/DC power converters systems, particularly the interlocks, protection systems, plasma control, building and site layout; -Supervises the contribution from the ITER Domestic Agencies (DAs); including design activities, manufacturing, testing and installation of the components delivered by the DAs within his/her scope; -Oversees the development and monitoring of budget, resources, procurement and construction plans related to the activities under her/his responsibility; -Evaluates design issues and provides reports to the Section Leader; -Tracks and revises regularly the Project Schedule associated with the design, fabrication, installation, testing and commissioning of the components and systems; -Implements guidelines and rules established by the line management; -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 implements guidelines and rules established by the Coil Power Supply Section Leader and the Head of the Electrical Engineering Division; -Successfully provides engineering support to the Coil Power Supply Section and the Electrical Engineering Division; -Successfully manages the ITER AC/DC conversion system design integration and interface with other ITER systems; -Successfully manages and follows-up the work of the DAs and the Engineering Support companies; -Successfully maintains effective communications with all parties delivering subsystems.
Level of study	Master or equivalent degree
Diploma	Power Electronic Engineering
Level of experience	5 to 9 years
Technical experience	AC/DC power converters comparable to those required for the supply of the ITER magnet system; Good knowledge of the control, protection and interlocks of a large AC/DC conversion plant; Good ability to draft and revise technical reports, documentation and project plans; Experience in running computer codes for transient and steady-state analysis of power converter and electrical circuit.
Project experience	1 to 2 years
Social skills	Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit Ability to communicate effectively Collaborative

Positive outlook

Specific skills The following optional qualifications will be considered an advantage:
Previous work experience in design, construction and operation of AC/DC conversion systems for Tokamak fusion devices; or large science facilities;
Previous work experience in design, construction and operation of AC/DC conversion systems and the associated protection devices and systems required for the supply of large- size superconductive magnets;
Previous work experience in the design, construction and operation of high power conversion plants (i.e. rated power above 200 MVA) for electrochemical plants, High Voltage Direct Current (HVDC) transmission links, or equivalent.

Languages English (Working)

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