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JOB DETAIL

Ref. IO1741 - 7/13/2016

Integrated Cryogenic System Engineer - CIO-076

Main job	Cryogenics
Department	CIO/ Central Integration Office
Division	CIO / Design Integration Division
Section	CIO / DIN / System Integration Section
Job Family	Engineer - 2
Application Deadline (MM/DD/YYYY)	08/28/2016
Grade	P3
Direct employment	Not required
Purpose	-To oversee the functional integration of the whole Integrated Cryogenic System, including the interfacing systems as clients; -To implement the whole Systems Engineering processes, including the project requirements technical management, the design development, the verification and the validation (including design, installation and commissioning phases) of the integrated system; -To prepare and perform functional test and the integrated commissioning of the Integrated Cryogenic System with clients; -To assume any other duty related to functional analysis, simulation studies and integration of the Integrated Cryogenic Systems.
Main duties / Responsibilities	-Implements the Systems Engineering processes, including functional, requirements flow-down, design control for the transverse functions, for the Integrated Cryogenic System; -Guarantees the correct and shared update of the functional interfaces for the whole Integrated Cryogenic System; -Is responsible for the integration of the Integrated Cryogenic System in the ITER Plant, taking into account the environmental constraints; -Implements the project requirements in the baseline of the Integrated Cryogenic Systems; -Is responsible for guaranteeing the functional integration of the design deliverables of the Integrated Cryogenic System, e.g. Process Flow Diagrams and Piping and Instrumentation Diagrams, through the whole lifecycle of the integrated system; -Develops and implements the verification and validation plan for the Integrated Cryogenic System; -Develops the organization of the turnover to machine Operation Team through functional test and commissioning plan of the Integrated Cryogenic System in cooperation with the Science and Operation and the Safety Departments; -Coordinates the Document Production Plan for the functional integration of the Integrated Cryogenic System; -Collaborates with the systems Responsible Officers in implementing the functional integration of the Integrated Cryogenic System; -Participates to the systems integration review meetings in order to verify the implementation of the requirements and advises on corrective actions, when necessary; -May be required to work shifts during the ITER assembly and commissioning phase; -Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan; -May be requested to be part of any of the project team and perform other duties upon management request; -Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.
Measures of effectiveness	-Reports to the System Integration Section Leader; -Interface closely with the Safety Department, Plant Engineering Department, Tokamak Engineering Department and other ITER Departments and Project

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Teams;
-Acts as an interface between the Central Integration Office, the technical responsible officers within IO and Domestic Agencies, and contractors;
-In response to requests from the Director-General (DG) and/or Central Integration Office (CIO) Head, or proactively, informs the DG/ CIO 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.

-Maintains the functional integration of the Integrated Cryogenic System;
-Ensures the proper implementation of the project requirements;
-Implements the engineering processes for the Integrated Cryogenic System;
-Prepares and performs the functional test of the Integrated Cryogenic System.

Project construction phase
SAP ID: 50003075

Level of study	Master or equivalent degree
Diploma	Cryogenics, mechanical, nuclear or other relevant
Level of experience	At least 8 years
Technical experience/knowledge	-Good knowledge of cryogenics and nuclear design code and standards; -Good knowledge of functional integration and commissioning of large plant system; -Extensive experience in similar jobs (involving similar work responsibilities) and/or additional training certificates in relevant domains may be considered a reasonable substitute for the required educational degree.
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 Good planning and organisational skills
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
General skills	-At least 8 years' experience in the System Engineering of complex projects; -Large Experience in Cryogenics Engineering of complex systems and projects; -Experience in design, procurement, construction and commissioning; -Good Project Management experience is required; -Knowledge of both international and French nuclear regulation, codes & standards is considered as an advantage; -Knowledge of nuclear safety and regulatory requirements is considered as an advantage.
Others	-Excellent capability to interact with experts from different disciplines; -Organizational skills and autonomy for his/her of responsibility; -Ability to work effectively in a multi-cultural environment; -Ability to work in a team and to promote team work; -Flexible and proactive approach oriented on problem solving -Excellent knowledge of the Microsoft Office package; -Knowledge of computational software for simulation studies.
Languages	English (Fluent)