

ITER 국제기구 공모 직위 직무기술서 (제197차)

○ 2개 직위

구분	분야	소속	직위	Job No.	등급
①	중앙통합 (CIO)	Design & Construction Integration Division System Integration Section	System Integration Engineer	CIO-078	P3
②			System Integration Engineer	CIO-152	

IO1840 Systems Integration Engineer - CIO-078&152

General information

Job category	Standard
Status	Published
Department	CIO/ Central Integration Office
Division	CIO / Design & Construction Integration Division
Section	CIO / DCIN / System Integration Section

Job description

Main job	Engineering - Mechanics
Title of the position	Systems Integration Engineer - CIO-078&152
Job family	Engineer - 2
Grade	P3
Direct employment	Not required Two openings
Purpose	<p>To oversee the functional integration of Tokamak and Plant Systems; 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 Integrated Systems; To assume any other duty related to functional analysis and simulation studies of Integrated Systems.</p>
Main duties / Responsibilities	<p>-Implements the Systems Engineering processes, including requirements flow-down, design control for the transverse functions, verification and validation of the Integrated Systems, e.g. Tokamak and Plant Systems; -Guarantees the correct and shared update of the functional interfaces performing Functional Design Integration Review; -Is responsible for the integration of Tokamak and Plant Systems in the Buildings, taking into account the environmental constraints; -Implements the project requirements in the baseline; -Is responsible for guaranteeing the functional integration of the design deliverables, e.g. Process Flow Diagrams and Piping and Instrumentation Diagrams, Single-Line Diagram through the whole lifecycle of the integrated system; -Develops and implements the verification and validation plan for the Integrated Systems; -Develops the organization of the turnover to machine Operation Team through functional test and commissioning plan , in cooperation with the Science and Operation and the Safety Departments; -Coordinates the Design Plan and Document Production Plan for the functional integration of the Integrated Systems and the Transverse Functions; -Collaborates with the Responsible Officers in implementing the functional integration of the Integrated Systems; -Perform the functional design integration review in order to verify the implementation of the integrated 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; -May be requested to be part of any of the project/construction teams and to perform other duties; -Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p> <p>-Reports to the System Integration Section Leader; -Interface closely with the Safety Department, Science and Operation Department, Plant Engineering Department, Tokamak Engineering Department and other ITER Departments and Project Teams; -Acts as an interface between the Central Integration Office, the technical responsible officers</p>

Measures of effectiveness	<p>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.</p> <p>-Maintains the Tokamak and Plant Systems functional integration; -Ensures the proper implementation, verification and validation of the project requirements; -Implements the systems engineering processes; -Prepares and performs the functional test of the Integrated Systems.</p> <p>Project Construction Phase SAP-Id:50003062&3071</p>
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Applicant criteria

Level of study	Master or equivalent degree
Diploma	Mechanical, nuclear or other relevant field
Level of experience	At least 8 years
Technical experience/knowledge	<p>At least 8 years' experience in the Systems Engineering of complex projects, within Fusion Technology or Nuclear Facilities; Experience in design, procurement, construction and commissioning; Good Project Management experience is required;</p> <p>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. -Knowledge of fusion technology and/or nuclear design code and standards; -Good knowledge of functional integration and commissioning of complex systems; -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 above mentioned educational degree.</p>
Social skills	<p>Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit</p> <p>-Excellent capability to interact with experts from different disciplines;</p>
General skills	<p>-Organizational skills and autonomy for his/her of responsibility; -Flexible and proactive approach oriented on problem solving.</p>
Languages	English (Fluent)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	-Knowledge of computational software for simulation studies.