

IO1102 Central Integration & Engineering Directorate Head

Job description

Main job	Executive Management - Executive Management
Title of the position	Central Integration & Engineering Directorate Head
Type of contract	Line management
Grade	D2
Direct employment	Required
Purpose	<p>For the success of ITER design and construction, to implement technical integration, nuclear safety and environment, assembly and operations in cooperation with Directorates of Department for ITER Project (DIP); to initiate and implement necessary system engineering to successfully manage and execute these objectives; to create the required infrastructure for effective configuration control and requirement management; to coordinate and integrate the machine layout; to enforce and maintain the Quality Assurance program and safety requirements; to effectively interface with the Domestic Agencies in matters related to technical integration and engineering.</p> <p>The Head of Directorate will oversee and manage all activities within the Directorate for Central Integration and Engineering (CIE), including design integration, configuration control, systems engineering, Computer-Aided Design & drawing, system analysis, application of codes & standards, safety design and assessment, on-site assembly and installation, remote handling, machine operations, RAMI (Reliability, Availability, Maintainability & Inspectability) and integral logistics.</p>
Main duties / Responsibilities	<p>Functions as a design integrator to:</p> <ul style="list-style-type: none"> -Establish and finalize all the requirements from project specifications, engineering and safety requirements including consistency among technologies, i.e., fabricability of component, easiness of initial assembly and remote maintenance, cost containment and engineering schedule minimization,; -Ensure that there are no conflicting requirements introduced by the flowing down of the overall project requirements to components; -Constantly maintain and update the Project Requirements until operation; -Oversee design reviews and conclude the design readiness by ensuring that the design of each component meets the requirements and that the interfaces are taken into account at each level of the project, including the manufacturing phase; -Ensure that manufacturing, acceptance and assembly are compliant with procedures defined; -Ensure that technical documents are provided with a sufficiently high level of quality to support the decisions; <p>Technically coordinates horizontal integration activities within the project and oversee the integral system design and analysis;</p> <p>Develops and maintains systems for the configuration control of the ITER project technical scope and cost;</p> <p>Oversees the safety design and assessment, and develops and maintains the safety documents for licensing application;</p> <p>Enforces and maintains technical requirements and administrative requirements for quality assurance and conformity assessments;</p> <p>Interfaces with the Domestic Agencies with respect to the technical integration and engineering, safety implications, and assembly and operations;</p> <p>Shows strong commitment to the ITER Safety Program and enforce it through individual behavior and in his/her organization;</p> <p>Maintains a strong commitment to the implementation and perpetuation of ITER values and ethics.</p>
Measures of effectiveness	<p>Successfully manages the Directorate for Central Integration and Engineering with all functions as described above;</p> <p>Successfully generates and maintains trustworthy, up-to-date information out of the systems engineering and integration tools;</p> <p>Successfully supports the DDG for Department ITER Project in managing the ITER technical scope through configuration control and design review considering consistency among technologies, cost containment and minimization of engineering schedule;</p> <p>Successfully maintains the strong cooperation with other Directorates to implement the integration on the design and construction of ITER.</p>

Applicant criteria

Level of study	Master or higher degree
Diploma	Engineering field or other relevant discipline
Level of experience	At least 20 years
Technical experience	<p>At least 20 years of relevant experience on managing a technical team on a complex developmental project on fusion research</p> <p>Experience in the technical development and integration, systems engineering, assembly and operations of a large experimental device or relevant facility;</p> <p>Knowledge or experience in nuclear licensing and application of codes & standards for construction necessary for the fusion project;</p> <p>Knowledge of design aspects of tokamak systems and ITER design & configuration;</p> <p>Ideally the successful candidate should have experience working on one of the world's large fusion devices.</p>
Project experience	20 to 30 years
People management experience	10 to 15 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	<p>- Knowledge of French (spoken and written) would be considered as an advantage.</p> <p>IT Skills consistent with managing a complex developmental project.</p>
Languages	English (Fluent)