

IO1523 Project Eng. & Integration Division Head PSE-385

General information

Job category	Standard
Status	Published
Department	DIP/Directorate for Plant System Engineering
Division	PSE/Project Engineering and Integration Division

Job description

Main job	Engineering - Mechanics
Title of the position	Project Eng. & Integration Division Head PSE-385
Job family	Head of Division
Grade	D1
Direct employment	Required
Purpose	<p>To provide leadership for the Project Engineering and Integration (PEI) Division members and work collaboratively with ITER management, users of Tokamak and Plant (T&P) support syst., and with multiple Participant Teams to complete the eng. design, install., testing, integration & commissioning of T&P Syst.</p> <p>To ensure an efficient dialogue, thereby supporting integration with the Domestic Agencies.</p> <p>To be responsible for managing the IO Area Managers and Systems Analysts for the Space Managt., Functional and Safety Integration of the IO T&P during design, install., testing and integrated commissioning.</p> <p>To oversee Area Managers for the successful implementation of the achievable long-term Time Schedule of the ITER Project.</p>
Main duties / Responsibilities	<p>To assure the feasibility of the T&P Installation, developing proper knowledge in the development of the install. sequence and in properly benchmarking the necessary prototype activities.</p> <p>To provide a transversal & collaborative service for all the IO in performing structural calculations for syst./components consistently with the Licensing Design Basis for inertial/thermal & electromagnetic loads properly combined.</p> <p>To assure a transversal & collaborative service for all the IO in performing nuclear, radiological & shielding calculations with radiation transport codes to assure radiological zonings are respected, equipment is protected against radiation damage & occupational dose rates & integrated exposure are reduced according to ALARA principles.</p> <p>Coordinates & collaborates with the PEI Division Section Leaders & members to complete the Project Engineering Integration & Structural/Hydraulic/ Mechanical/Nuclear Calculations on time & within budget;</p> <p>Assures contract management is within budget & consistent with the agreed contractual time schedule, optimizing as much as possible the insourcing/in-house eng. manpower;</p> <p>Ensures that functional requirements for each T&P Syst. are specified & documented & that functional requirements meet user needs;</p> <p>Administers the design review process, ensuring that only designs that optimize quality, safety, schedule & cost are carried forward;</p> <p>Assures integration of Building Interfaces & Space Managt. area by area for each building, supporting properly mechanical/electrical & Instrumentation & Control construction & installation activities;</p> <p>Anticipates, averts and/or resolves issues that arise regarding the quality & design of each of the ITER T&P Syst. by collaborating with the Integrated Product Team's (IPTs), proposing & promoting mitigation methods.</p> <p>Assures the collection & reporting of project managt. information including progress on design and fabrication activities performed by the IPTs;</p> <p>Assures completion of Procurement Arrangements for IO T&P Syst., including design description doc. & technical specifications;</p> <p>Integrates the licensing activities in close contact with the Safety Control Section;</p> <p>Assures the conflict resolution regarding the schedule & cost of the IO T&P Syst. construction;</p> <p>Provides effective leadership for the Division ensuring team members are motivated & constantly developing their skills & experience, maximizing human capital & people's commitment to achieving the IO goals;</p> <p>Executes & delivers the Detailed Work Schedule in support of the Strategic Managt. Plan for</p>

Measures of effectiveness	scope, budget & schedule of the systems in the Division & contributes to the staffing of the Division;
	Assures goals are achieved in a timely and effective manner, which meets safety, quality, cost and schedule targets; Provides leadership in safety, promoting the safety Culture at all levels; Builds & maintains relationships with internal & external stakeholders; Performs other duties linked to the above purpose upon management request, as necessary; Maintains a strong commitment to the implementation & perpetuation of the ITER Safety Program, values & ethics.
	Reports to the Director of PSE Directorate; Acts as an interface for all other Divisions/Sections as required; Maintains communication with other organizations within the ITER collaboration & the fusion community; In response to requests from the Director-General (DG) and/or ITER Project Department (DIP) Director, or proactively, informs the DG and/or DIP Director of any important & urgent issues that cannot be handled by the concerned line managt. & may jeopardize the achievement of the Project's objectives.
	Fosters a collaborative & productive working environmt. by communicating efficiently with the PEI Section Leaders; Ensures close collaboration with other IPT's/organizations within the IO; Responsible for Division deliverables that meet safety standards, quality, schedule & cost requirements; Responsible for implementation of safety nuclear regulation & other safety standards of the Division's work; Responsible for adherence to technical standards across the Project.
	Project Construction Phase

Applicant criteria

Level of study	Master or equivalent degree
Diploma	Mechanical or Nuclear Eng. or equiv. or doctorate
Level of experience	At least 15 years
Technical experience	At least 15 years' experience in the relevant engineering management, mechanical design, or systems engineering, in international experience; In-depth understanding of complex space management integration addressing lay out solutions.; In-depth technical understanding and experience of complex design and construction (e.g., large tokamaks, nuclear plant systems and components); Good Project Management experience is required; Experience in the design, construction and operation of large tokamaks and/or tokamak sub-systems; knowledge of tokamak and tritium physics would be an advantage.
People management experience	At least 10 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
General skills	At least 10 years' experience in supervising a multinational team; Ability to provide effective leadership; Ability to motivate and develop the team members' skills and experience; Managerial experience on a wide range of project-related experience or plant design and construction.
Languages	English (Working)
Others	IT skills consistent with requirements for managing a complex project; High level knowledge in design/procurement and installation/commissioning of Nuclear Syst. considering integration among Clients, distribution and Suppliers; High level knowledge in managing licensing design basis of syst. & components as well as safety issues consistent with the ITER Safety Report; Knowledge of water chemistry, construction, radwaste processing, hot cell operations, detritiation systems, remote handling & cryogenic systems will be considered an advantage; Knowledge & exp. in performing, or managing teams performing, structural, mechanical, thermal-

hydraulic, electromagnetic, nuclear & radiological calculations;
Ability to develop & maintain effective international contacts in the T&P syst. engineering discipline;
Flexible & positive personality;
Ability to negotiate with influence & convince internal & external stakeholders.