

# IO1636 Cooling System Engineering Division Head - PED-002

## General information

Job category	Standard
Status	Published
Department	PED / Plant Engineering Department

## Job description

Main job	Engineering - Mechanics
Title of the position	Cooling System Engineering Division Head - PED-002
Job family	Head of Division
Grade	D1
Direct employment	Required
Purpose	<p>To be responsible for the integration of all design aspects, construction planning / installation of Plant Support Systems and Commissioning of Cooling Water System (Work Breakdown Structure 2.6) and Cryoplant and Cryodistribution System (WBS 3.4). These activities will be developed in close coordination with both the Central Integration Office and under its global control and the Construction Steering Committee.</p> <p>To provide leadership for Division members and work collaboratively with ITER management, users of plant support systems, and with multiple Project Teams to complete the engineering design, installation, testing and commissioning of Plant Support Systems. To be open in dialogue and supporting job integration with the Domestic Agencies.</p> <p>Ensures together with the Cooling Water System Section Leader the safety and functional performances of the cooling water system integration with all the Clients of the systems and also proper delivery of production of the commissioning procedures for the system itself and of the integration of the Cooling Water System with its Clients and Suppliers;</p> <p>Ensures together with the Cryogenic System Section Leader the safety and functional performances of the cryogenic system integration with all the Clients of the systems and also the proper delivery of production of the commissioning procedures for the system itself and of the integration of the Cryogenic Systems with its Clients and Suppliers;</p> <p>Ensures with the Section Leaders and section members to complete the Plant Support Systems on time and within budget;</p> <p>Ensures Contracts management within the budget and consistently with the agreed contractual time schedule;</p> <p>Ensures that functional requirements for each Plant Support System are specified and documented and that functional requirements meet user needs;</p> <p>Ensures that design and engineering activities be implemented in accordance with the Quality Assurance Program and related procedures and processes;</p> <p>Anticipates, averts and/or resolves issues that arise regarding the quality and design each of the Plant Support Systems by collaborating with the Project Team's (PTs);</p> <p>Provides the collection and reporting of project management information including progress on design and fabrication activities;</p> <p>Ensures consistency regarding integration of the design with the rest of the ITER system and components and that lessons learned from one Work Breakdown Structure (WBS) element are transferred to other WBS elements;</p> <p>Assures completion of Procurement Arrangements for Plant Support Systems, including design description documents and technical specifications;</p> <p>Supports the licensing activities in close contact with the Safety Control Section;</p> <p>Supports conflict resolution regarding the schedule and cost of the Plant Support Systems construction;</p> <p>Provides effective leadership for the Division ensuring team members are motivated and constantly developing their skills and experience;</p> <p>Executes and delivers the Detailed Work Schedule in support of the Strategic Management Plan for scope budget and schedule of the systems in the Division and contributes to the staffing of the Division;</p> <p>Assures that IO's goals are achieved in a timely and effective manner, which meets safety, quality, cost and schedule targets;</p>
Main duties / Responsibilities	

Measures of effectiveness	<p>Maximizes human capital and people's commitment to achieving the IO goals; Provides leadership in safety;</p> <p>Builds and maintains relationship with internal and external stakeholders; Performs other duties upon management request, as necessary; Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p> <p>Reports to the Plant Engineering Department Head; Acts as an interface for all other ITER Organization Divisions/Sections as required; Maintains communications with other organizations within the ITER collaboration and the fusion community; In response to requests from the Director-General (DG) or DDG/ Chief Operating Officer (COO), or proactively, informs the DG or DDG/COO 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>Communicates efficiently with the Plant Engineering Section Leaders to foster a collaborative and productive working environment; Communicates and collaborates effectively with other PTs/ organizations within the ITER organization; Responsible for Division deliverables that meet safety standards, quality schedule and cost requirements; Responsible for implementation of safety nuclear regulation and other safety standards of the Division's work; Responsible for adherence to technical standards.</p> <p>ID SAP: 50000204</p> <p>Project Construction Phase</p>

## Applicant criteria

Level of study	At least Master's Degree or equivalent
Diploma	Mechanical or Nuclear Engineering
Level of experience	At least 15 years
Technical experience/knowledge	<p>Good technical knowledge in design / procurement and installation / commissioning of cold sinks;</p> <p>Good technical knowledge in integration of cold sinks within complex and large-scale experimental projects;</p> <p>Good knowledge in managing licensing design basis of systems and components as well as safety issues consistent with the ITER Safety Report.</p>
	<p>At least 15 years' experience in the relevant engineering management, mechanical design, and system engineering; international experience would be an advantage;</p> <p>In-depth technical understanding of complex design and construction (e.g., large scale experimental facilities, nuclear plant systems and components);</p> <p>Experience in design of Cryogenic Systems as well as of Primary Reactor Cooling Water Systems in NPPs will be considered an advantage;</p> <p>Knowledge or experience of the design of tokamak fusion machine systems will be considered an advantage;</p> <p>Good Project Management experience is required.</p>
People management experience	At least 10 years
Social skills	<p>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</p> <p>Ability to develop and maintain effective international contacts in the plant system engineering discipline;</p> <p>Ability to negotiate with influence and convince internal and external stakeholders.</p>
General skills	<p>At least 10 years' experience in supervising a team;</p> <p>Ability to provide effective leadership;</p> <p>Ability to motivate and develop the team members' skills and experience;</p> <p>Managerial experience on a wide range of project-related experience or plant design and</p>

construction.

Languages English (Fluent)

Others IT skills consistent with requirements for managing a complex project.