

IO1555 Cryogenic System Section Leader PED-017

General information

Job category	Standard
Status	Published
Department	PED / Plant Engineering Department
Division	PED / Cooling Systems Engineering Division

Job description

Main job	Engineering - Cryogenics
Title of the position	Cryogenic System Section Leader PED-017
Job family	Section Leader
Grade	P5
Direct employment	Required
Purpose	<p>To be responsible for all activities related to the research and development (R&D), design, procurement, manufacturing, delivery, inspection, assembly, installation, testing, commissioning and operation of the ITER cryogenic system.</p> <p>Provides effective leadership for the Section ensuring team members are motivated; Coordinates and oversees the in-kind procurement of the LN2 plant and Auxiliary System by the European Domestic Agency; Coordinates and oversees the in-kind procurement of the cryolines, warm lines and cryodistribution systems by the Indian Domestic Agency; Is responsible for the direct procurement of the Liquid Helium plant system, and for the coordination and oversight of the detail design, manufacturing, installation, test and commissioning by industry; Is responsible for the direct procurement and management of the liquid (Helium and Nitrogen), Is responsible for the implementation of the operation and maintenance strategy, Completes the cryogenic system design and review of the process and physical interfaces with the users and suppliers; Coordinates the specification and requirements for the instrumentation and control of the ITER cryogenic system; Updates and reviews the technical specifications and baseline documentation for the ITER cryogenic system;</p>
Main duties / Responsibilities	<p>Performs the required analysis to validate and improve the cryogenic system flexibility and reliability to operate over a full range of plasma scenarios; Supports the design and construction of the cryoplant building; Prepares, revises and maintains the schedule to build the cryogenic system as well as the testing and commissioning program; Executes and delivers the Detailed Work Schedule in support of the Strategic Management Plan for scope budget and schedule of the systems in the Section and contributes to the staffing of the Section; Assures that IO's goals are achieved in a timely and effective manner, which meets safety, quality, cost and schedule targets; Maximizes human capital and people's commitment to achieving the IO goals; Provides leadership in safety; Builds and maintains relationship with internal and external stakeholders; Performs other duties upon management request; May be requested to belong to any Project Team dealing with above activities, including to take the leadership of such 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.</p> <p>Reports to the Cooling Systems Engineering Division Head; Acts as an interfaces in the Organization with the designers of the magnets, the thermal shields, the cryo-vacuum pumps, diagnostics, the utilities and the buildings to support integration; In response to requests from the Director-General and/or Plant Engineering Department (PED) Head, or proactively, informs the DG/PED Head of any important and urgent issues that cannot be</p>

Measures of effectiveness	<p>handled by the concerned line management and may jeopardize the achievement of the Project's objectives.</p> <p>Coordinates efficiently the ITER Cryogenic Section's activities; Manages interfaces between the cryogenic system and cryogenic users and suppliers; Responsible for the proper advancement of the deliveries from suppliers with regards to the part of IO and DA coordinating responsibilities; Completes plans for procurement, manufacturing, installation, tests and commissioning within the defined deadlines; Maintains effective communications with all parties delivering subsystems; Responsible for Section deliverables that meet safety standards, quality schedule and cost requirements; Responsible for implementation of safety nuclear regulation and other safety standards of the section's work; Responsible for adherence to technical standards.</p>
	<p>Project Construction Phase ID SAP: 50000215</p>

Applicant criteria

Level of study	Master or equivalent degree
Diploma	Cryogenics, process or mechanical engineering
Level of experience	At least 10 years
Technical experience/knowledge	<p>Excellent knowledge of industrially proven cryogenic equipment; Excellent knowledge of the design, procurement, installation and testing of complex cryogenic systems; Excellent knowledge of cryogenic process cycles, distribution boxes, cryolines and helium refrigerator systems; Good knowledge of LN2 refrigerator systems; Excellent knowledge of design codes and standards; Good knowledge of factory acceptance tests and commissioning of complex equipment.</p>
People management experience	At least 10 years' experience in the development, design, procurement and commissioning of large cryopant and cryodistribution systems for fusion or accelerator applications; Solid experience in the project management and integration of complex systems in the field of cryogenics is considered as an advantage.
Social skills	<p>At least 5 years</p> <p>Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit</p> <p>Basic Project Management experience is required.</p>
General skills	<p>At least 5 years' experience in supervising a team; Ability to provide effective leadership; Ability to motivate and develop the team members' skills and experience.</p>
Languages	<p>Ability to develop and maintain effective international contacts to perform tasks in multicultural environment, covering the international project; Ability to negotiate with influence and convince internal and external stakeholders.</p> <p>English (Fluent)</p>
Specific skills	<p>MS Office standard (Word, Excel, PowerPoint, Outlook)</p> <p>Knowledge and experience in thermos hydraulic analysis would be considered as an advantage; Knowledge of process engineering and analysis of operating modes for large cryogenic systems would be considered as an advantage;</p>
Others	<p>Knowledge of operation and maintenance of complex cryogenic system would be considered as an advantage.</p> <p>Good command of the Microsoft Office package.</p>