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JOB DETAIL

Ref. IO1128 - 3/16/2011

Cryogenic System Section Leader CEP-005

Main job	Cryogenics
Department	DIP/Directorate for Central Engineering & Plant
Division	CEP / Plant Engineering Division
Section	CEP / PED / Cryogenic System Section
Job Family	Project engineering
Application Deadline	17/Apr/2011
Grade	P5
Direct employment	Not required
Purpose	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.
Main duties / Responsibilities	<ul style="list-style-type: none"> • Provides effective leadership for the Section ensuring team members are motivated; • Coordinates and oversees the in-kind procurement of the LN2 cryoplant and auxiliaries 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 helium refrigerator system, and for the coordination and oversight of the detail design, manufacturing, installation, test and commissioning by industry; • 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; • 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; • Maintain a strong commitment to the implementation and perpetuation of the ITER safety program, values and ethics.
Measures of effectiveness	<ul style="list-style-type: none"> • Successfully coordinates the ITER Cryogenic Section's activities; • Successfully manages interfaces between the cryogenic system and cryogenic users and suppliers; • Successfully manages plans for procurement, manufacturing, installation, tests and commissioning; • Successfully maintains effective communications with all parties delivering subsystems.
Level of study	Master or higher degree
Diploma	Cryogenics, process or mechanical engineering
Level of experience	At least 10 years
Technical experience	<ul style="list-style-type: none"> - At least 10 years' experience in the development, design, procurement and commissioning of large cryoplant and cryodistribution systems for fusion or accelerator applications; - At least 5 years' experience in the project management and integration of complex systems in the field of cryogenics; - Proficiency in industrially proven cryogenic equipment; - Proficiency in the design, procurement, installation and testing of complex cryogenic systems; - Skills in cryogenic process cycles, distribution boxes,

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cryolines and helium refrigerator systems;
– Good knowledge of LN2 refrigerator systems;
– Good knowledge and experience in thermohydraulic analysis;
– Ability to design codes and standards;
– Experienced in process engineering and analysis of operating modes for large cryogenic systems;
– Good knowledge of factory acceptance tests and commissioning of complex equipment.

Project experience 2 to 4 years

Social skills Ability to work effectively in a multi-cultural environment
Ability to work in a team and to promote team spirit

General skills MS Office standard (Word, Excel, PowerPoint, Outlook)

Specific skills – Basic Project Management experience is required.
– Social Skills: Ability to develop and maintain effective international contacts to perform tasks in multicultural environment, covering the international project;

Languages English (Working)

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