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JOB DETAIL

Ref. IO1898 - 10/4/2017

Instrumentation & Control Engineer - PED-136

Main job	Cryogenics
Department	PED / Plant Engineering Department
Division	PED / Cooling Systems Engineering Division
Section	PED / CSED / Cryogenic System Section
Job Family	Engineer - 1
Application Deadline (MM/DD/YYYY)	11/16/2017
Grade	P2
Direct employment	Not required
Purpose	<p>To participate to the functional analysis, process control and software implementation of cryoplant and cryogenic distribution system.</p> <p>To lead and coordinate the Instrumentation & Control (I&C) system functional test prior and during the commissioning activities of the cryogenic system, in close cooperation with the Central Control team and industrial suppliers.</p> <p>To lead the instrumentation loop tests and acceptance during the commissioning and pre-operation phase.</p>
Main duties / Responsibilities	<ul style="list-style-type: none">-Prepares and reviews the instrument and process control design interfaces of the cryogenic components and subsystems;-Performs and/or reviews the functional analysis and process control for the liquid helium, liquid nitrogen and cryogenic distribution systems;-Defines the instrumentation and controls for the liquid helium, liquid nitrogen and cryogenics distribution system;-Develops and performs the required testing, commissioning and operation plan for the cryogenic system instrumentation and process control;-Communicates and collaborates with the ITER Safety Department to facilitate the licensing process, providing technical support for the definition and update of safety interfaces;-Manages Section's documentation in compliance with the ITER Management Quality Program and participates in preparing or updating its baseline documentation;-Performs other duties linked to the above purpose upon management request, as necessary;-May be required to work outside ITER Organization reference working hours, including nights, weekends and public holidays;-May be requested to be part of any of the project/construction teams and to perform other duties;-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics. <ul style="list-style-type: none">-Reports to the Cryogenic System Section Leader;-Interacts with members within ITER and outside collaborators as required;-In response to requests from the Director-General (DG) and/or Director for Central Engineering and Plant (CEP) Directorate, or proactively, informs the DG/ Director for CEP Directorate 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.
Measures of effectiveness	<ul style="list-style-type: none">-Successfully and timely manages the instrument and process control design interfaces of the cryogenic components and subsystems;-Performs high quality and accurate functional analysis and process control within the defined schedule;-Completes and documents efficiently the definition of the instrumentation and controls for the liquid helium, liquid nitrogen and cryogenics distribution system;-Maintains excellent communication with interfaces in the Organization to develop the Instrumentation and Control of the Cryogenic System.
	Project Construction Phase
Level of study	Master or equivalent degree
Diploma	Process, Instrumentation & Control
Level of experience	At least 5 years
Technical experience/knowledge	<ul style="list-style-type: none">-At least 5 years' work experience in the development, design, procurement and commissioning of cryogenics installations or equivalent process plant;-Extensive experience in similar jobs (involving similar

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work responsibilities) and/or additional training certificates in relevant domains may be considered a reasonable substitute for the required educational degree;
-Proven Success in complicated chemical processing system control;
-Hands on experience of industrial control and instrumentation equipment including Siemens PLC, HMI and SCADA system.

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

Specific skills CATIA
Computer Aided Design
MS Office standard (Word, Excel, PowerPoint, Outlook)

Others -Proficiency in using MS Windows Server 2003, 2008;
-Programming Languages: C , C++ , VBA, VBS and VB.NET; SQL: PgSQL, MySQL, MS SQL ; HTML, XHTML, CSS; JavaScript, DHTML, PHP;
-Basic knowledge of CAD System (CATIA and AVEVA – PDMS) will be a plus.

Languages English (Fluent)

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