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Ref. IO2042 - 12/21/2018

Instrumentation & Control Engineer PED-227&136

Main job Control system

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) 01/13/2019

Grade P2

Direct employment Not required

Purpose Two openings

To participate to the functional analysis, process control and software implementation of cryopant and cryogenic distribution system.
To support 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.
To contribute to the instrumentation loop tests and acceptance during the commissioning and pre-operation phase.

Main duties / Responsibilities Prepares the instrument and process control design interfaces of the cryogenic components and subsystems; Prepares the functional analysis and process control for the liquid helium, liquid nitrogen and cryogenic distribution systems;
Proposes the instrumentation and controls for the liquid helium, liquid nitrogen and cryogenics distribution system;
Develops and performs Programmable Logic Control (PLC) software of the Master Controller of the Cryogenic System;
Develops and Performs mimics for the supervision of the Cryogenic System.
Develops and performs the required testing, commissioning and operation plan for the cryogenic system instrumentation and process control;
Maintains the control system software already accepted by ITER Organization;
Communicates and collaborates with the ITER Safety Department to facilitate the licensing process, providing technical support for the definition and update of safety interfaces;
Updates and maintains documentation in compliance with the ITER Management Quality Program and participates in preparing or updating its baseline documentation;
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, ITER Values (Trust; Loyalty; Integrity; Excellence; Team mind set; Diversity and Inclusiveness) and Code of Conduct.

Measures of effectiveness 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.

Efficiently and timely supports the instrument and process control design interfaces of the cryogenic components and subsystems;
Provides an efficient contribution for accurate functional analysis and process control within the defined schedule;
Provides an efficient contribution for Siemens PLC programming;
Drafts 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.

SAP Id: 50002731 & 50005145

Level of study	Master or equivalent degree
Diploma	Process, Instrumentation & Control or equivalent
Level of experience	At least 5 years
Technical experience/knowledge	At least 5 years' work experience in the development, design, procurement and commissioning of cryogenics installations or equivalent process plant; Proven Success in complicated chemical processing system control; Hands on experience of industrial control and instrumentation equipment including Siemens PLC, HMI and SCADA system; Extensive experience in similar jobs (involving similar work responsibilities) and/or additional training certificates in relevant domains may be considered a reasonable substitute for the required educational degree.
General skills	Ability to dialogue with a wide variety of contributors and stakeholders; Ability to adjust communication content and style to deliver messages to work effectively in a multi-cultural environment; Ability to persist in the face of challenges to meet deadlines with high standards; Ability to gather multiple and diverse sources of information to define problems accurately before moving to proposals; Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.
Others	Proficiency in using MS Windows Server 2003, 2008; Programming Languages: C , C++ , VBA, VBS and VB.NET; SQL: PostgreSQL, MySQL, MS SQL ; HTML, XHTML, CSS; JavaScript, DHTML, PHP; LINUX Basic knowledge of EPICS will be a plus.
Languages	English (Working)

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