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JOB DETAIL

Ref. IO2084 - 2/27/2019

Interlock Systems Integration Engineer SCOD-060

Main job	Control system
Department	SCOD / Science & Operations Department
Division	SCOD / Control System Division
Section	SCOD / CSD / Plant Control & Instrumentation Section
Job Family	Engineer - 2
Application Deadline (MM/DD/YYYY)	04/14/2019
Grade	P3
Direct employment	Not required
Purpose	To be responsible for the delivery of the Instrumentation & Control (I&C) functional specifications related to Interlock systems, collaborating with ITER Central Team and Domestic Agencies. To participate in the development and testing of the control system devices used within or interfacing with the ITER Interlock Control System (ICS). To contribute to the construction, installation, integration and commissioning of the ITER Central Interlock Systems (CIS).
Main duties / Responsibilities	Acts as an Investment Protection I&C specialist during the reception and integration of the different Plant System I&C involved in the implementation of investment protection I&C functions; Contributes to the identification of Failure Mode of the main components involved in I&C Interlock System functions and proposes solutions; Takes a leading role in the identification, classification, specification and implementation of I&C functions related to Interlock Systems, liaising with different plant system experts. Contributes to the design, construction, installation, integration and commissioning of the CIS, ensuring proper interfaces between the Central Interlock System and other Plant Interlock Systems; Participates in the ITER Machine Protection Panel (MPP) as support in any related decision making; Provides scientific and technical expertise on all Interlock System-related issues; Works closely alongside the ITER teams and experts responsible for the design of interlock-related systems; Drafts and prepares interface documents with regards to Plant System I&C and ensures that they are maintained up-to-date; 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 in support of the project schedule; Reports to the Plant Control and Instrumentation Section Leader; Interfaces with plant system developers both within the ITER Central Team and with the ITER Domestic Agencies.
Measures of effectiveness	Provides sound advice and guidance to the Machine Protection Panel as a Failure Mode Analysis specialist; Contributes effectively to the integration of local Plant interlock Systems in the Central Interlock Systems; Ensures that interfaces between the Central Interlock System and other Plant Interlock Systems are properly handled; Prepares effectively the acceptance tests, installation, integration and commissioning of the Interlock Control Systems; Maintains effective communication with all the interfacing teams of the ITER Project.
Level of study	Master or equivalent degree
Diploma	Industrial Control, Electronics or other
Level of experience	At least 8 years
Technical experience/knowledge	At least 8 years' relevant experience in the design of complex I&C interlock systems; Strong experience in functional analysis definition, as well as in functional specification for Interlock systems for large industrial and/or scientific facilities; Strong experience in the identification of Failure Mode of main components involved in Interlock systems; Analysis experience of critical components in first in highly

	technical and/or complex facilities; Knowledge of international standards applicable to machine protection(e.g.: IEC 61508, IEC 61511); Good experience in delivering high quality technical and scientific documentation in English; Good experience in the construction / integration / operation of a scientific or technical facility; Knowledge of Instrumentation and Control interlock technologies (e.g. Siemens S7 PLC, FPGA, hardwired protections, Fast Controllers, etc.).
General skills	Excellent organizational skills and the ability to set priorities and meet deadlines; Collaborate: Ability to dialogue with a wide variety of contributors and stakeholders; Communicate Effectively: Ability to adjust communication content and style to deliver messages to work effectively in a multi-cultural environment; Drive results: Ability to persist in the face of challenges to meet deadlines with high standards with high level of reliability and autonomy; Manage Complexity: Ability to gather multiple and diverse sources of information to define problems accurately will the ability to set priorities and meet deadlines before moving to proposals; Instill trust: Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.
Others	Extensive experience in similar jobs (involving similar work responsibilities) in the field of Investment Protection and/or additional training certificates in relevant domains may be considered a reasonable substitute for the required educational degree; Excellent computer and IT skills are mandatory; Strong practical experience of Microsoft Office tools and Microsoft Visio.
Languages	English (Fluent)

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