

IO1299 Interlock Systems Specialist CHD-093

General information

Job category	Standard
Confidential	No
Status	Published
Department	DIP/Directorate for CODAC, Heating & Diagnostics
Division	CHD / Control System Division
Section	CHD / CSD / Plant Control and Instrumentation Section

Job description

Main job	Engineering - Control system
Title of the position	Interlock Systems Specialist CHD-093
Job family	Experienced Technician - 2
Grade	G5
Direct employment	Required
Supervised by:	Section Leader
Purpose	<p>To work with the Plant Control & Instrumentation Section in the design, procurement and commissioning of the ITER Central Interlock System (CIS), providing technical support during the final design and procurement phases of the system.</p> <p>To develop global dependability studies on the ITER interlocks.</p> <p>To contribute to the procurement, deployment, operation and maintenance of the ITER Central Interlock System within the responsibility of the PCI Section.</p> <p>To participate to the development and testing of the control system devices used within or interfacing with the ITER Interlock Control System.</p> <p>To participate to the installation and integration of the ITER Plant Interlock Systems.</p> <p>To provide hands-on services and help on electronics and automation issues in ITER interlock prototypes.</p>
Main duties / Responsibilities	<ul style="list-style-type: none">- Supports the CIS Responsible Officer on the design, construction, installation and commissioning of the Central Interlock System;- Supervises the work of the IO contractors during the preliminary and final design phases of the CIS (digital and hardwired);- Develops a complete dependability analysis of the Interlocks Control System providing input to its design, construction and operation;- Supports the CIS Responsible Officer as instrumentation and controls expert during the procurement of the ITER interlocks;- Manages the CIS interfaces documentation and the required databases for the interlocks integration follow-up;- Supervises the FAT and SAT of the Central Interlock System versions;- Performs and/or supervises technical works on the interlocks cubicles and infrastructure;- Maintains and continuously improves the interlock;- Defines and continuously improves the ITER I&C Cubicle internal configuration in the area of cabling, power train, signal interfacing and electromechanical assembly;- Participates to the maintenance of the Plant System Design Handbook configuration guideline satellite documents;- Participates to the reception, installation and integration of the ITER Plant Interlock Systems;- Plans, order and installs the interlock related equipment in CODAC Technical Rooms and their annex terminal rooms;- Orders and supervise the procurement of small electronics and electrical accessories;- Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan;- Performs other duties linked to the above purpose upon management request, as necessary;- Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics. <p>- Reports to the Plant Control & Instrumentation Section Leader;</p> <p>- Acts as an interface between the interlock team and the Plant Systems Technical Responsible</p>

Measures of effectiveness	Officers for Plant System connectivity, commissioning and integration; - In response to requests from the Director-General and/or CODAC, Heating & Diagnostics Directorate (CHD) Director, or proactively, informs the DG/CHD Director 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.
	<ul style="list-style-type: none"> - Maintains in good operating condition and continuously improves the interlocks prototypes; - Contributes efficiently to the design and installation of the Central Interlock System within the defined schedule; - Contributes proactively to the installation, commissioning and integration of ITER Plant Interlock Systems within the defined schedule; - Completes and maintains a global dependability analysis of the ITER interlocks.
Project Construction Phase	

Applicant criteria

Level of study	Bachelor or higher degree
Diploma	Automatic Ctrl Systems, Electronics or Nuclear Eng
Level of experience	At least 8 years
Technical experience	<ul style="list-style-type: none"> - Experience is required in the design and construction of instrumented protection systems based on Siemens S7 PLC technologies or equivalent; - Experience in Red Hat Enterprise Linux operating system is an asset; - Experience in PROFINET is an asset; - Experience in PROFISAFE is an asset; - Experience in electrical power distribution design and installation.
Social skills	<ul style="list-style-type: none"> - Good knowledge of dependability analysis tools; - Strong knowledge of I&C interlock technologies: Siemens S7 PLC, FPGA, hardwired protections, etc.
General skills	<p>Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit</p> <p>Project experience:</p> <ul style="list-style-type: none"> - Participation to the construction of a large scale I&C installation; - Experience of the procurement, purchasing and reception QA procedures; - Participation to the construction of scientific or technical facility is an asset; - Experience working in international environment is an asset.
Languages	English (Working)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	<p>Computer and IT skills:</p> <ul style="list-style-type: none"> - Linux (Red Hat) - Visio and Project - Dependability analysis software tools

Origin of the job

Entity	ITER ORGANIZATION
Recruitment reason	New position

HR Follow-up

Email alerts	Every 10 applications
Main recruiter in charge	CHOE Hyunejune
Followed by	Emilia Fullmer-Bourree
Alert recipient(s)	Emilia Fullmer-Bourree CHOE Hyunejune
Publication default start date	2/19/2013
Publication default end date	3/21/2013

Automatic update No