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Ref. IO1881 - 8/2/2017

Control Systems Integration Engineer- SCOD-045

Main job	Control system
Department	SCOD / Science & Operations Department
Division	SCOD / Control System Division
Section	SCOD / CSD / CODAC Section
Job Family	Coordinating Engineer
Application Deadline (MM/DD/YYYY)	09/10/2017
Grade	P4
Direct employment	Required
Purpose	To deliver CODAC technologies and organize the support of it to ITER plant system developers in the ITER member states; To complete the final design of CODAC Operation Application system; To provide CODAC central services in control rooms (e.g. TCR, MCR, BCR) for plant system integrations, commissioning and operation of ITER; To plan and organize the integration and commissioning of ITER plant systems in the central control system; To plan and execute the commissioning of CODAC for the integrated commissioning and operation of ITER in the Main Control Room; To review detailed interface definition between ITER plant systems and the central control system; To manage contracts to support above activities.
Main duties / Responsibilities	-Is responsible for delivering CODAC tools within the planned schedule and executes the evaluation of distributed CODAC software in an integrated manner; -Contributes to the final design of CODAC Operation Application; -Implements the CODAC central services in the Control Rooms (e.g. TCR, MCR, BCR) for plant system commissioning, the integrated commissioning and the operation of ITER; -Takes a leading role in developing commissioning plans for validating integration of ITER plant systems in the central control system and takes responsibility for executing those plans; -Contributes to the integration and commissioning of ITER plant systems; -Provides efficient support of CODAC technologies to ITER plant system developers, testers and integrators to ensure the completion of integration in the central system within the schedule; -Verifies and amends interfaces between ITER plant systems and the central control systems; -Documents and maintains all procedures to support above activities; -May be required to take part in the on-call duty service established by the ITER Organization (IO) outside ITER Organization reference normal working hours, including nights, weekends and public holidays; -Performs other duties in support of the project schedule; -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. -Reports to CODAC Section Leader; -Closely interfaces with the CODAC Development Team; -Acts as an interface between the CODAC/I&C teams and the Plant Systems Technical Responsible Officers for Plant System integration and commissioning;
Measures of effectiveness	-In response to requests from the Director-General and/or CODAC, Heating & Diagnostics Director, or proactively, informs the DG/ CODAC, Heating & Diagnostics 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. -Resolves efficiently problems related to development and integration of ITER plant control systems; -Contributes proactively to the ITER plant system developers in control system area; -Develops realistic and cost effective integration and commissioning plans within the defined timeline; -Defines and executes ITER plant systems Factory and Site

	Acceptance Tests; -Integrates ITER plant systems in the central control system within the defined quality, schedule and cost; -Provides timely and accurately the required reporting as described in the Detailed Work Schedule. Project Construction Phase
Level of study	Master or equivalent degree
Diploma	Computer Science, electronics
Level of experience	At least 10 years
Technical experience/knowledge	-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. -At least 10 years of experience in developing, testing, integrating, commissioning and operating a large scale control system; -Experience in developing and operating control system based on Linux Operating System and EPICS middleware; -Strong capabilities in trouble shooting and problem solving; -Experience in developing integration and commissioning plans; -Experience in industrial control and Programmable Logic Controllers (PLCs) considered an advantage; -Experience in networking considered an advantage; -Experience in electronics considered an advantage. -Participation to the construction, integration and commissioning of scientific or technical facility; -Project Management experience is required;
Social skills	Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
General skills	-Experience of supervising contracting companies activities; -Experience of supervising junior / technical personnel. -Excellent organizational skills and the ability to set priorities and meet deadlines; environment; -Ability to negotiate and communicate effectively.
Others	-Linux (Red Hat) -Scripting languages (e.g. Python); -Excellent computer and IT skills (e.g. MS Office) are mandatory.
Languages	English (Fluent)

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