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JOB DETAIL

Ref. IO1850 - 6/8/2017

Control System Technician - SCOD-030

Main job Generalist**Department** SCOD / Science & Operations Department**Division** SCOD / Control System Division**Section** SCOD / CSD / CODAC Section**Job Family** Technician - 3**Application Deadline**
(MM/DD/YYYY) 07/30/2017**Grade** G4**Direct employment** Required

Purpose To take an active part in the development of a software tool kit, entitled CODAC Core System, which is used by the plant control system developers. This tool kit, based on Experimental Physics and Industrial Control System (EPICS) which includes configuration tools, communication middleware, device drivers and human machine interface tools, is to be continuously developed, and released at regular intervals.

To take an active part in the testing and support with emphasis on EPICS device drivers and PLC (Programmable Logic Controller) interface.

To support the design and development of ITER plant systems Instrumentation and Control (I&C) in compliance with ITER standards.

To integrate third party supplied plant system I&C with the ITER central control system.

Main duties / Responsibilities

- Develops and maintains EPICS device drivers for ITER standardized Input/Output (I/O) boards as part of CODAC Core System distribution;
- Develops other control software in the area of PLC and Human Machine Interface (HMI);
- Implements, executes and documents test procedures to ensure quality of all software products in the CODAC Core System distribution;
- Supervises and monitors similar work delivered by external contractors and take over maintenance after delivery;
- Contributes to external plant control system developers' activity by use of the CODAC Core System distribution;
- Provides technical supports in PLC engineering and its interfaces with ITER central control system;
- Supports the plant system I&C integration with ITER central control system based on the staged approach;
- Supports plant system I&Cs through the lifecycle in design, manufacturing and testing;
- Develops interface documents with plant systems and procedures for integration with Central I&C systems;
- May be required to work outside normal 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;
- Performs other duties in support of the project schedule;
- Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.

- Reports to the CODAC Section Leader.
- Acts as an interface between assigned plant systems;
- In response to requests from the Director-General and/ Head of the Science & Operations Department (SCOD), or proactively, informs the DG/ Head of SCOD 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

- Develops the assigned device drivers and other software products;
- Implements the test and quality assurance procedures for those products and ensures a first level of maintenance and quality control;
- Maintains the assigned products in the CODAC Core System distribution; contributes to process improvement;
- Supports the external users of those products;
- Successfully supports assigned plant system I&Cs and its integrations with Central I&Cs;
- Ensures the above mentioned tasks are well executed according to work timeline with safety and quality.

Project Construction Phase
SAP ID : 50001978

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Level of study	Bachelor or equivalent degree
Diploma	Computer Science, electronics field
Level of experience	At least 5 years
Technical experience/knowledge	<p>-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.</p> <p>-At least 5 years' experience in in developing device drivers; testing and integration of control systems; and using oscilloscopes and other measurement instruments;</p> <p>-Good experience in PLC programming;</p> <p>-Good experience in digital electronics;</p> <p>-Good experience in using Linux and real-time operating systems;</p> <p>-Some experience in software engineering and quality assurance;</p> <p>-Some experience in using EPICS considered an advantage;</p> <p>-Some experience in large scale control system development and operation considered an advantage;</p> <p>-Basic Project Management experience is required.</p>
Social skills	<p>Ability to work effectively in a multi-cultural environment</p> <p>Ability to work in a team and to promote team spirit</p> <p>Ability to communicate effectively</p>
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
General skills	-Ability to work effectively in a multi-disciplinary environment;
Others	-Excellent computer and IT skills, consistent with a complex developmental project, are mandatory.
Languages	English (Fluent)

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