

IO1228 CODAC Section Leader CHD-003

General information

Job category	Standard
Status	Published
Department	DIP/Directorate for CODAC, Heating & Diagnostics
Division	CHD / Control System Division
Section	CHD / CSD / CODAC Section

Job description

Main job	Engineering - Control system
Title of the position	CODAC Section Leader CHD-003
Job family	Section Leader
Grade	P5
Direct employment	Required
Purpose	<p>To coordinate the CODAC (Control, Data Access and Communication) Section, which is responsible for the central control system for the ITER device;</p> <p>To manage and coordinate the completion of the design of the CODAC System;</p> <p>To manage the development and distribution of the CODAC Core System, which is the common software framework used by all plant systems, and to promote standardization to mitigate integration risks;</p> <p>To manage the development of the CODAC high level applications for supporting operation, orchestration, data handling, plasma feedback control and remote participation;</p> <p>To manage the development of the control system infrastructure including networks, computers and control rooms;</p> <p>To ensure strong interfaces with all stakeholders of the control system including plasma operation, machine operation, machine protection, safety, diagnostics and plant systems, both within ITER Organization and with Domestic Agencies and their suppliers.</p> <p>Coordinates task assignments, follow-up, and scheduling of the CODAC Section's activities;</p> <p>Provides effective leadership for the Section ensuring team members are motivated and constantly developing their skills and experience;</p> <p>Revises the ITER CODAC design documentation;</p> <p>Manages the development of software ensuring interfaces between high level CODAC services and plant systems based on CODAC Core System;</p> <p>Manages distribution and promotion of CODAC Core System and standardized hardware including training and user support;</p> <p>Manages the development of CODAC high level applications ensuring operability (supervision, monitoring, automation, plasma control, data handling and remote participation);</p> <p>Collaborates with teams from the Domestic Agencies to produce a design based on consensus;</p> <p>Structures various development and contractual activities related to CODAC;</p> <p>Organizes and plans the development and maintenance of the network, application server and control room infrastructure required for CODAC;</p>
Main duties / Responsibilities	<p>Is responsible for document and content management for CODAC activities;</p> <p>Contributes to all these activities, in collaboration with the ITER project teams and the CODAC development group;</p> <p>Supports effective risk identification and management;</p> <p>Executes and delivers the Detailed Work Schedule in support of the Strategic Management Plan for scope budget and schedule of the systems in the Section and contributes to the staffing of the Section;</p> <p>Assures that IO's goals are achieved in a timely and effective manner, which meets safety, quality, cost and schedule targets;</p> <p>Maximizes human capital and people's commitment to achieving the IO goals;</p> <p>Provides leadership in safety;</p> <p>Builds and maintains relationship with internal and external stakeholders;</p> <p>Performs other duties linked to the above purpose upon management request, as necessary;</p> <p>Maintains a strong commitment to the implementation and perpetuation of the ITER safety program, values and ethics.</p>

Measures of effectiveness	<p>Reports to the Control System Division Head;</p> <p>In response to requests from the Director-General and/or Director of CODAC, Heating & Diagnostics, or proactively, informs the DG/ Director of CODAC, Heating & Diagnostics 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.</p>
	<p>Completes the final design of the CODAC system including executing and closing out the final design review;</p> <p>Develops the design of interfaces of CODAC system with plant system I&C, Central Interlock System and Central Safety System;</p> <p>Develops the design of interfaces of Central I&C , CODAC, interlock and safety systems with the other ITER groups;</p> <p>Prepares technical specifications for procurements and contracts to complete the CODAC requirements;</p> <p>Manages the required components and equipment procurement;</p> <p>Develops cost effective plans and effective testing and installation plans;</p> <p>Maintains effective communication with all parties delivering subsystems for the CODAC system;</p> <p>Responsible for Section deliverables that meet safety standards, quality schedule and cost requirements;</p> <p>Responsible for implementation of safety nuclear regulation and other safety standards of the section's work;</p> <p>Responsible for adherence to technical standards.</p> <p>SAP ID: 50000295</p> <p>Project Construction Phase</p>

Applicant criteria

Level of study	At least Master's Degree or equivalent
Diploma	Science, Engineering or other relevant discipline
Level of experience	At least 10 years
Technical experience	<p>Experience in a research environment, international experience would be an advantage;</p> <p>Experience successfully leading a control systems group for large physics experiments and also managing its planning and organizing its group activities;</p> <p>Experience integrating and commissioning large physics projects of a similar type.</p>
Project experience	4 to 5 years
People management experience	At least 5 years
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit, Good negotiation skills
General skills	<p>Ability to provide effective leadership;</p> <p>Ability to motivate and develop the team members' skills and experience;</p> <p>Ability to negotiate with influence and convince internal and external stakeholders.</p>
Languages	Proficiency of Linux
Specific skills	<p>Experience in state-of-the-art networking</p> <p>Knowledge of EPICS middleware will be an asset</p>
	English (Working)
	MS Office standard (Word, Excel, PowerPoint, Outlook)