

# IO1174 Control Systems Support Technician CHD-085

## General information

Job category	Standard
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	Control Systems Support Technician CHD-085
Job family	Project engineering
Grade	G3
Direct employment	Required
Purpose	<p>To take an active part in the support of all Control and Instrumentation (PCI) stakeholders. The Control System Division includes two sections: the CODAC Section and the PCI Section. The PCI supports the design and development of local control systems by the ITER Members, and their interface with the central supervising control system. To facilitate this process, the CODAC Section has developed a software toolkit entitled CODAC Core System; in addition, the PCI has gathered a set of control and instrumentation standards in the Plant Control Design Handbook.</p>
Main duties / Responsibilities	<p>Provides first-level support to CODAC Core System users; Fully supports Programmable Logic Control (PLC) Developers and Integrators; Supports application of ITER Instrumentation &amp; Control Standards: the Plant Control Development Handbook and the PLC Software Engineering Handbook;. Administrates the PLCs of ITER IO and the PLC support wiki on the ITER Intranet;. Contributes to the improvement of the CODAC Core System by efficiently monitoring and reporting bugs; Performs other duties in support of the project schedule as described in the Detailed Work Breakdown Structure Schedule or 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>
Measures of effectiveness	<p>Reports to the Plant Control and Instrumentation Section Leader; In response to requests from the Director-General and/or Control System Division Head, or proactively, informs the DG/Control System Division Head 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>Efficiently supports collaborators with PLC-related requests;. Uses, promotes and applies ITER Control System Standards and Tools; Administrates the PLCs under ITER responsibility; Supports integration of delivery ITER Members' deliveries.</p>

## Applicant criteria

Level of study	Bachelor or equivalent degree
Diploma	Electronic / Computer Science / Electro mechanics
Level of experience	At least 5 years
Technical experience	<p>Experience in PLC development with IEC 61131 Programming Languages: Ladder, Function Block Diagram, Instruction List, Sequential Function Chart; Experience with PLC Structured Text Programming, or one procedural language (C, Pascal, etc), or one scripting language (Bash, CSH, Python, JavaScript ); Experience in Industrial SCADA development; Experience in Industrial Control Systems Development and Commissioning. Medium size: 1000</p>

	I/Os with hierarchized architecture; Experience in user support or application maintenance; Experience in mounting and wiring electrical enclosures; Experience with common laboratory tools like oscilloscopes, multimeters and signal generators;.
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	Experience with the following Microsoft Office Tools : Outlook Word, Excel, SharePoint. Strong experience with Microsoft Visio. Ability to develop Stencils and work with ShapeSheets.
Languages	English (Working)
Free criteria	Experience in at least two of the following fields: Linux/UNIX as user, programmer or administrator; Siemens STEP 7; EPICS; Development with SIL3 PLCs; Development of TCP/IP communications; Ethernet Switches administration.