Control and Instrumentation Developer/ Administrator   CHD-070

Reports to Line Manager:	CODAC Section Leader, CODAC & IT Division, Department for CODAC & IT, Heating & Current Drive, Diagnostics	Job Code:	CHD-070
Direct Employment:	Required	Grade:	G4

Purpose

The CODAC Section is developing standards for and is responsible for the integration of Plant Systems instrumentation and control (subsystems) provided by the seven ITER parties' Domestic Agencies (DA). The number of Plant Systems is estimated to be in the order of 150 and be developed over a period of ten years. The CODAC Section will support the development of these Plant Systems instrumentation and control with a dedicated team.

The candidate will support the Control and Instrumentation activities for the development of industrial and scientific plant systems in all matters related to hardware specifications, software development, integration, distribution and support.

china

eu

Major Duties/Responsibilities

india

japan

- Specifies and develops instrumentation and control systems for the ITER plant systems;
- Supervises the design and development of the instrumentation and control components provided by the 3rd parties; Takes responsibility for the acceptance and integration of such components;
- Organizes the maintenance of the operational components;
- Implements test systems and organizes support for a widely distributed user community;
- Helps to manage the system administration of plant systems' computer installations;
- Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.

korea

russia

usa

Qualifications and Experience

- *Education:*
  – Degree at least equivalent to 3 years of study after the High School Diploma in Computer Science or equivalent.
- *Technical experience:*
  – At least 8 years of experience in the development and maintenance of complex instrumentation and control systems;
  – Experience with software engineering methods and tools;
  – Experience in testing, debugging and certifying software;
  – Experience in user support;
  – Experience with system administration for industrial automation systems would be an asset;
  – Some experience in a large experimental facility would be beneficial;
  – Experience in software project management would be beneficial.

- ***People Management experience:***
    – Capacity to work with contractors.
- ***Social Skills:***
    – Ability to work effectively in a multi-cultural environment;
    – Ability to work in a team and to promote team work.
- ***Language requirements:***
    – Fluent in English (written and spoken).
- ***Computer and IT skills:***
    – Strong knowledge of Programmable Logic Controllers and C/C++ languages and good knowledge of Java.

Direct Supervisor and Interfaces

- Reports to the CODAC Section Leader.

Authority / Approval Levels

This position has authority and approval levels generally defined by the Section Leader for his/her scope of work.

Measures of Effectiveness

- Successfully provides support for the hardware and software specification and development of the plant system Instrumentation and Control;
- Successfully supervises and integrates into CODAC the instrumentation and control components provided by 3rd parties as well as organizes the long-term maintenance;
- Successfully provides the required ITER specific components for the core part of the CODAC software.