

TITLE: Control System Engineer		CHD-053
REPORTS TO LINE MANAGER: Head of CODAC & IT Division Department for CODAC&IT, H&CD and Diagnostics		
DIRECT EMPLOYMENT: NOT REQUIRED		GRADE RANGE: P3 – P4
Date Written: June 2008	Date Revised:	Date Revised:

Purpose:

CODAC will develop, package and export standard hardware and software components to the seven parties' Domestic Agencies, who are responsible for developing Plant Systems using local industries. The number of Plant Systems is estimated to be more than one hundred that are to be developed over a period of ten years. The candidate will be responsible for developing the procedures to enforce the selected standards and to assure the quality by proper testing, configuration control and packaging. Furthermore, the candidate will be responsible for establishing the procedures to integrate the systems.

Major Duties/Responsibilities:

- Contributes to the establishment of the CODAC hardware and software standards;
- Develops procedures to enforce those standards;
- Develops procedures to package and export the standard hardware and software components;
- Develops procedures to establish configuration control;
- Develops automatic test procedures;
- Develops procedures for system integration;
- Maintains a strong commitment to the implementation and perpetuation of the ITER safety program, values and ethics.

Qualifications and Experience:

- **Education:** Master's Degree or equivalent University Degree in Science or Engineering.
- **Experience:**
 - At least 5 years of practical experience in a research or industrial environment with a similar scope of work;
 - At least 5 years of practical experience in software quality control;
 - Good knowledge of software development in LINUX and Windows environments as well as programming languages like C, C++, JAVA;
 - Good knowledge of software testing methodologies and automatic regression testing;
 - Good knowledge of integration of large systems;
 - A clear understanding of the problems linked with the control system of a large facility and the integration of heterogeneous industrial subsystems;
 - Some knowledge of industrial controls and their related standards would be beneficial;

- An ability to work in an international environment should be demonstrated;
- Experience in project- and contract-management would be an asset.
- **Language requirements:** Good working knowledge of spoken and written English is essential.

Work Direction and Interfaces:

Reports to the Division Head (DH) for CODAC & IT.

Authority/Approval Levels:

Has authority and approval levels defined by the DH for his/her scope of work.

Measures of Effectiveness:

- Successfully enforces ITER-wide standards related to CODAC;
- Successfully establishes procedures to ensure quality control of hardware and software;
- Successfully establishes configuration control;
- Successfully establishes efficient automatic test procedures;
- Successfully establishes integration and packaging procedures;
- Successfully supports internal and external software and hardware development.