

TITLE: INTERLOCK AND SAFETY SYSTEMS EXPERT CODAC & IT, H & CD AND DIAGNOSTICS / CODAC & IT		CHD-025
REPORTS TO LINE MANAGER: DIVISION HEAD FOR CODAC & IT		
DIRECT EMPLOYMENT: NOT REQUIRED	GRADE RANGE: P3-P4	
DATE WRITTEN: APRIL 2007	DATE REVISED:	DATE REVISED:

Purpose:

ITER will have a high-reliability protection of investment system to interlock the actions of 90-120 Plant Systems, including appropriate data representation and visualization. A smaller, probably hard-wired, safety system will complement the interlock system. The complex ITER plant will generate a large number of alarms to be handled automatically and manually. This post requires a broad view of CODAC, from the data originating in instrumentation and control, through the specific CODAC data systems and plant control systems.

Major Duties/Responsibilities:

- Take a leading role in the development of the safety and interlock system of ITER Control, Data Access and Communications system (CODAC). Generation of technical specifications for outsourcing the development of systems will be a major part of the responsibilities.
- Contribute to all these activities, in collaboration with the ITER Project team and the CODAC development group.
- Interface with the ITER safety group, and industries involved in the development of the relevant systems for ITER.
- Assist with the preparation of the relevant procurement packages.
- Assist with the management of the scope, schedule and cost of procurement of the systems and supporting hardware through the specified procurement packages.
- Assist with the preparation and updating of the interface documentation.
- Assist with the preparations for the installation of the safety and control systems on ITER.

- Report variances on all technical, cost and schedule aspects immediately to the Division Head.
- Support effective risk identification and management.
- Maintain a strong commitment to the implementation and perpetuation of ITER safety programme.
- Maintain a strong commitment to the implementation and perpetuation of ITER values and ethics.

Qualifications Required:

- The successful candidate will have at least 10 years of practical experience in a research or industrial environment and university training in science or engineering.
- A clear understanding of the problems linked to the protection of a unique and expensive experimental facility would be an advantage. An ability to work in an international environment should be demonstrated.
- Good working knowledge of spoken and written English is essential.

Work Direction and Interfaces:

Reports to the Division Head for CODAC & IT.

Authority/Approval Levels:

Has authority and approval levels defined by the Division head for his scope of work.

Measures of Effectiveness:

- Successfully develops the design of interfaces of components with the main CODAC system.
- Successfully develops conceptual, outline engineering designs for key components of ITER IT requirements.
- Successfully prepares technical specifications of allocated procurement packages.
- Successfully manages procurement of systems / components through procurement packages.
- Successfully prepares for the installation of the systems on ITER.

- Successfully supports the IT needs of the Project.