

TITLE: SENIOR TECHNICAL OFFICER FOR CODAC - CODAC & IT, H & CD AND DIAGNOSTICS / CODAC & IT		CHD-003
REPORTS TO LINE MANAGER: DIVISION HEAD FOR CODAC&IT		
DIRECT EMPLOYMENT: NOT REQUIRED	GRADE RANGE: P5-P6	
DATE WRITTEN: SEP 2006	DATE REVISED: MARCH 2007	DATE REVISED:

Purpose:

The candidate will be responsible for taking the present conceptual outline of the ITER Control, Data Access and Communications system (CODAC) and develop it into an engineering design appropriate for handling the integration of 90-120 Plant Systems procured “in-kind” around the world. He/ she will interact with the ITER Project team to understand their requirements and will be responsible for outsourcing the major part of the work required. He /she will facilitate the CODAC group to develop its own systems for handling the data from Plant Systems, controlling them and providing access to these data to the research community. CODAC interfaces to feedback control of the fusion plasma, to protection of investment systems and to safety systems.

The candidate will also supervise and lead the computing technology effort required for the CODAC implementation of the project. The safety and interlock system will also be candidate’s responsibility. Plasma control and feedback activity for ITER will also be supervised, planned and controlled by the candidate.

Major Duties/Responsibilities:

- Revise of the ITER CODAC Design Documentation.
- Collaborate with interested Participating Teams to produce a consensual design.
- The targets are a first review of ITER CODAC by fusion experts and a second review by non-fusion experts.
- Structure various activities related to CODAC.
- Organize and plan maintenance and development of network and software infrastructure required for CODAC.
- Document and Content Management for CODAC activity.
- Support effective risk identification and management.

- Identify and initiate actions on interfaces with other ITER Departments / Divisions / Sections.
- Maintains a strong commitment to the implementation and perpetuation of ITER values and ethics.

Qualifications and Experience:

- The successful candidate will have at least 15 years of practical experience in a research environment and a Ph. D. degree in science or engineering. He / she should have led an experimental control group, planning and management of the group activities. The candidate should have experience of integrating and commissioning physics projects of this type.
- Good working knowledge of spoken and written English is essential.
- An ability to work in an international environment should be demonstrated.

Work Direction and Interfaces:

Reports to the Division Head of CODAC & IT.

Authority/Approval Levels:

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

Measures of Effectiveness:

- Successfully develops the design of CODAC system.
- Successfully develops the design of interfaces of CODAC system with the other ITER groups.
- Successfully prepares technical specifications of different procurement packages to complete the requirements of CODAC.
- Successfully manages the procurement of the required components and equipments.
- Successfully develops cost effective installation and testing plans.
- Successfully maintains effective communications with all parties delivering subsystems for the CODAC system.
- Successfully supports the IT needs of the Project.