TITLE: Software Engineer	CHD-048
REPORTS TO LINE MANAGER: Head of Division of Control, Data Access and Communication (CODAC) and Information Technology (IT)	
DIRECT EMPLOYMENT: NOT REQUIRED	GRADE RANGE: P2 – P3
DATE WRITTEN: May, 2008	DATE REVISED:	DATE REVISED:

Purpose:

The role of the Software Engineer is to design, execute, assess, and troubleshoot system software for the ITER control system (CODAC). This includes developing, configuring, testing, and documenting software throughout the project life cycle. The Software Engineer will also oversee system prototyping in a timely and accurate fashion, work in collaboration with internal and external developers and provide support to other departments where required.

Major Duties/Responsibilities:

- Contributes to establishing the ITER-CODAC software solutions.
- Contributes to specification, prototyping, tests, integration and operation activities of ITER CODAC systems and integration programming frameworks for industrial control systems as a software expert.
- Maintains a strong commitment to the implementation and perpetuation of ITER safety program, values and ethics.

Qualifications Required:

- The successful candidate will have at least 5 years of practical experience in a research or industrial environment with a similar scope of work and a university training in science or engineering.
- Good knowledge of software development in LINUX and Windows environments as well as programming languages like C, C++, JAVA is a prerequisite.
- A clear understanding of the problems linked to the control system of a large facility and the integration of heterogeneous industrial subsystems is required.
- Experience in programming of PLC based automation systems is an asset.
- An ability to work in an international environment should be demonstrated.
- Good working knowledge of spoken and written English is essential.
- Maintains a strong commitment to the implementation and perpetuation of ITER safety program, values and ethics.

Work Direction and Interfaces:

Reports to the Divisional 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 establishes ITER-wide standards related to Software.
- Successfully organizes the procurement and support of standard software packages for CODAC systems.
- Successfully prepares and controls the technical specifications of allocated procurement packages.
- Successfully prepares for the integration and tests of software on ITER system.
- Successfully supports the software needs of the project.