

TITLE: Diagnostic Technical Officer		CHD-046
REPORTS TO LINE MANAGER: Head of Diagnostics Division		
DIRECT EMPLOYMENT: REQUIRED		GRADE RANGE: G5-G6
DATE WRITTEN: May, 2008	DATE REVISED:	DATE REVISED:

Purpose:

Assists on the technical aspects of the implementation of the ITER Diagnostic System. Develops technical specifications for some of the components of the Diagnostic System and oversees their procurement and installation at ITER. Supports the Division Head in all matters relating to the implementation of ITER diagnostics.

Major Duties/Responsibilities:

- Assists with the development, specification, procurement and installation of parts of the ITER Diagnostic Systems, especially those parts that will be provided by the ITER Organization; for example ex-vessel electrical equipment, cabling and the diagnostic windows. Takes responsibility for some of these systems.
- Develops some of the interfaces of the diagnostic system, especially the interfaces with diagnostic transmission lines and the ITER buildings.
- Assists in the specification and provision of the services to the diagnostics such as electrical power and vacuum.
- Assists in the development of an optimum layout of the diagnostic systems in the Diagnostic Building.
- Assists in the development of a plan for the installation of the diagnostic sub-systems.
- Assists in the preparation for the installation of the diagnostic systems on ITER.
- Shows strong commitment to the ITER safety program and enforces it through individual behaviour and in his/her organization.
- Maintains a strong commitment to the implementation and perpetuation of ITER safety program, values and ethics.

Qualifications Required:

- Training and qualifications to professional technician level (first degree level). Experience with high vacuum systems, low power electrical systems, project planning techniques, control systems, procurement, project engineering and QA is required.
- At least 5 years experience of working on a project of similar technical complexity to ITER.
- Familiarity with some aspects of mechanical and/or electrical engineering design for Tokamak diagnostic systems, such as optical engineering, vacuum systems, microwave and cabled electrical transmission, water cooling systems and mechanical handling schemes, would be an advantage.

- Good communication skills in written and spoken English.

Work Direction and Interfaces:

Reports to the Division Head for Diagnostics.

Authority/Approval Levels:

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

Measures of Effectiveness:

- Successfully develops the specification of allocated parts of the diagnostic system.
- Successfully oversees the procurement and installation of allocated parts of the ITER Diagnostic System.
- Successfully develops some of the interfaces of the diagnostic system.
- Successfully develops the specification and provision of the services to the diagnostics such as electrical power and vacuum.
- Successfully supports the diagnostic needs of the project.