

Electron Cyclotron Systems Technical Officer

CHD-065

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| Reports to Line Manager: | Electron Cyclotron Section Leader, , Heating and Current Drive Division, Department for CODAC & IT, Heating & CD, Diagnostics | Job Code: | CHD-065 |
| Direct Employment: | Required | Grade: | G3 |

Purpose

To provide engineering and control systems support in the design and integration of the Electron Cyclotron (EC) System including the power supplies, gyrotrons, transmission lines, launchers and auxiliary systems. Ensuring this support will require configuration management, control systems engineering, interface design and specifications. The individual will also assist in the preparation of technical specifications, detailed design descriptions, contract monitoring and Quality Assurance (QA) support.

china

eu

india

japan

korea

russia

usa

Major Duties/Responsibilities

- Develops the plant control system description and monitors its procurement and installation;
- Defines interfaces between the plant control system, CODAC, interlocks and other external systems and Electron Cyclotron (EC) subsystems;
- Coordinates local control systems development both at the ITER site and its partners;
- Provides configuration management of the EC plant including interface description, development of subsystem requirements, documentation management, specifications traceability and monitoring test;
- Monitors Quality Programs associated with the sub-system procurements;
- Maintains a strong commitment to the implementation and perpetuation of the ITER safety program, values and ethics.

Qualifications and Experience

- **Education:**
 - Degree equivalent to 3 years of study after the High School Diploma in a relevant engineering field.
- **Technical experience:**
 - At least 5 years' experience in systems engineering and/or analysis.
- **Project experience:**
 - Experience working in systems engineering and analysis on a multinational project is desirable.
- **Social Skills:**
 - Ability to work effectively in a multi-cultural environment;
 - Ability to work in a team and to promote team work.

- **Language requirements:**
 - Fluent in English (written and spoken);
 - Some knowledge of French maybe helpful.
- **Computer and IT skills:**
 - Experience using web-based software, analytical programming, and Microsoft applications required;
 - Some experience using CATIA, ENOVIA, ANSYS or similar may be helpful.

Direct Supervisor and Interfaces

- Reports to the Section Leader of the EC system;
- Acts as an interface between the ITER Organization and the Domestic Agencies in developing/monitoring/evaluating contracts, task agreements and system management.

Authority / Approval Levels

This position has authority and approval levels defined by the section head for the scope of this work.

Measures of Effectiveness

- Successfully develops and monitors the procurement of the local plant control system;
- Provides support of documentation management, quality compliance, system integration;
- Provides reliability assessment of the EC plant and its subsystems;
- Successfully develops technical specifications and procedures to ensure the relevant EC subsystems are compliant with current rules and regulations;
- Successfully provides technical support for the EC system.