

IO1279 CHD-023 Diagnostic Engineer / Physicist

General information

Job category	Standard
Status	Published
Department	DIP/Directorate for CODAC, Heating & Diagnostics
Division	CHD / Diagnostics Division
Section	CHD/ DD/ In-Vessel Diagnostics Section

Job description

Main job	Engineering - Diagnostics
Title of the position	CHD-023 Diagnostic Engineer / Physicist
Job family	System Engineer - 1
Grade	P3
Direct employment	Not required
Purpose	<p>To develop the design of diagnostic systems for the tokamak.To perform analysis as required.</p> <p>To contribute to the management of scope, schedule and cost of procurement for diagnostic systems and supporting hardware through specified procurement packages and contracts.</p> <p>To support the Section Leader/Division Head in all matters relating to the implementation of ITER diagnostics.</p>
Main duties / Responsibilities	<ul style="list-style-type: none">- Supports for the Diagnostics in all matters related to the implementation of ITER diagnostics;- Develops the design of key diagnostics located in the harsh ITER environment. Potential topics to be addressed include system design, remote-handling, calibration, alignment, testing, and maintenance schemes;- Prepares technical specifications of allocated diagnostic procurement packages;- Follows up the packages interacting with the teams working in the Domestic Agencies (DA) of the ITER partners as necessary;- Specifies and drives on-going diagnostic design and integration activities and updates and integrates these designs;- Develops and uses project engineering tools for the procurement of diagnostic systems;- Prepares for the installation of the diagnostic systems on ITER;- Reports variances on all technical, cost and schedule aspects immediately to the Section Leader/Division Head;- Identifies and proposes solutions to manage effectively risks for the in-vessel systems;- Manages the change control process for his/her scope of work and communicates changes to the Section Leader/Division Head; Guarantees integration with other technical interfaces;- Supports effective risk identification and management;- Supports IO and DA diagnostic engineering designs and specifications;- Supports and lead the Design Review processes as appropriate;- Maintains related documentation at all times on the ITER Document System and ensure it is updated and in the correct formats;- Performs other duties in support of the project schedule as described in the Detailed Work Schedule or Strategic Management Plan;- Performs other duties linked to the above purpose upon management request, as necessary;- Maintains a strong commitment to the implementation and perpetuation of the ITER safety program, values and ethics. <ul style="list-style-type: none">- Reports to In-Vessel Section Leader;- Interfaces with other ITER Technical Directorates, as required;- Collaborates with other organizations within the ITER parties and the wider fusion community;- Interacts with DAs;- In response to requests from the Director-General and/or Director of CODAC, Heating & Diagnostics, or proactively, informs the DG/ Director of CODAC, Heating & Diagnostics of any important and urgent issues that cannot be handled by the concerned line management and may jeopardize the achievement of the Project's objectives.

Measures of effectiveness	<ul style="list-style-type: none"> - Develops designs of allocated diagnostics; - Prepares technical specifications of allocated diagnostics; - Concludes design reviews; - Manages procurement of diagnostics; - Prepares for the installation of the diagnostic systems on ITER; - Develops interfaces of diagnostics with the main Tokamak components; - Liaises effectively with Domestic Agencies and other Directorates at IO; - Complete all work in a timely manner and meet agreed deadlines; - Ensures safety is the main priority at all times. <p>Project Construction Phase. SAP Id : 50000315.</p>
---------------------------	---

Applicant criteria

Level of study	At least Master's Degree or equivalent
Diploma	Engineering or Physics.
Level of experience	At least 5 years
Technical experience	<ul style="list-style-type: none"> - Experience of science/engineering in a high technology field, such as plasma physics, high energy particle physics, fission reactors, space instrumentation; - Familiarity with Ultra High Vacuum (UHV) system requirements; - Familiarity with diagnostics utilizing laser instrumentation, surface physics and/or dust/tritium/erosion measurement would be an advantage; - Familiarity with aspects of electromagnetic engineering would be an advantage.
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
Languages	English (Working)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	Demonstrated significant Project Management experience is required.