IO1327 Diagnostic Engineer/Physicist CHD-094

General information

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

Job description

Main job	Engineering - Fusion
Title of the position	Diagnostic Engineer/Physicist CHD-094
Job family	Engineer - 2
Grade	P3
Direct employment	Not required
Purpose	Develop the designs of spectroscopic diagnostic systems. Specify, monitor and coordinate work in the laboratories and institutes of the ITER Partners, including any relevant supporting R&D. Manage scope, schedule and cost of procurement of some of the diagnostic systems and supporting hardware through specified procurement packages.
Main duties / Responsibilities	- Provides expertise, on spectroscopic diagnostics especially active spectroscopy; - Develops the design of interfaces of diagnostics with the main tokamak components; - Specifies and drives on-going integration activities; - Specifies and monitors R&D packages; - Supports or leads the Design Review processes, as appropriate; - Prepares technical specifications in support of diagnostic procurement packages; - Manages some procurement of diagnostic systems through procurement packages, interacting with the teams working in the Domestic Agencies (DAs) of the ITER Partners as necessary; - Checks and maintains relevant ITER databases; - Uses project management tools for the procurement of diagnostic systems (e.g. project planning, work-breakdown, technical schedule); - Maintains communication with other organizations within the ITER collaboration and the fusion community; - Prepares for the installation of the diagnostic systems on ITER; - Reports variances on all technical, cost and schedule aspects immediately to the line management; - Supports effective risk identification and management; - Manages the change control process for his/her scope of work and communicates changes to the line management. - Maintains related documentation at all times on the ITER Document System and ensures it is updated and in the correct formats; - Ensures the Division is well represented from a physics and engineering perspective; - 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.
	Reports directly to the Ex-Vessel Diagnostics Section Leader; Interfaces with other ITER Technical Directorates, as required; ensuring integration with other technical interfaces; Interacts with the teams working in the DAs of the ITER Partners as necessary; In response to requests from the Director-General and/or CODAC, Heating & Diagnostics Director, or proactively, informs the DG/ CODAC, Heating & Diagnostics Director 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	Work packages completed to agreed milestones; Developed designs of diagnostics and interfaces;

	Developed and approved technical documentation for procurement; Developed and approved installation plans; Successful management of the procurement of the diagnostics for some systems; Successful collaboration with Domestic Agencies and other IO Directorates; Efficient work at all times with other Diagnostics team members. Project Construction Phase

Applicant criteria

Level of study	Master or higher degree
Diploma	Engineering, physics, fusion or relevant
Level of experience	At least 8 years
Technical experience	- Experience in management of instrumentation or diagnostics projects; - Experience with design, construction, commissioning and exploitation of tokamak active spectroscopic diagnostic systems, including instrumentation, detectors, optical engineering, data acquisition and analysis would be considered as 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	Familiarity with CAD design is an advantage