

IO1327 Diagnostic Engineer/Physicist CHD-094

General information

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

Job description

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| Main job | Engineering - Fusion |
| Title of the position | Diagnostic Engineer/Physicist CHD-094 |
| Job family | Engineer - 2 |
| Grade | P3 |
| Direct employment | Not required |
| Purpose | <p>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.</p> <ul style="list-style-type: none">- 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; |
| Main duties / Responsibilities | <ul style="list-style-type: none">- 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. <p>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.</p> |
| Measures of effectiveness | <p>Work packages completed to agreed milestones; Developed designs of diagnostics and interfaces;</p> |

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

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| Level of study | Master or higher degree |
| Diploma | Engineering, physics, fusion or relevant |
| Level of experience | At least 8 years |
| Technical experience | <ul style="list-style-type: none"> - 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 |