

# IO1405 Hi-Tech Systems Installation Engineer CIE-235

## General information

Job category	Standard
Status	Published
Department	DIP/Directorate for Project Control & Assembly
Division	PCA / Assembly & Operations Division
Section	PCA / AOP / Machine Assembly & Installation Section

## Job description

Main job	Engineering - Diagnostics
Title of the position	Hi-Tech Systems Installation Engineer CIE-235
Job family	Coordinating Engineer
Grade	P4
Direct employment	Not required
Purpose	<p>To manage and co-ordinate the installation of the plasma diagnostics systems, including the front end components installed on the tokamak, the specialized measurement and detection hardware located in the dedicated diagnostics building, the associated waveguides, optics, etc.;</p> <p>To be responsible for developing an overall strategy for completing the installation of the diagnostics hardware, focusing on coordination, logistics, schedule and cost, for ensuring system constructability through collaboration with the system designers;</p> <p>To be responsible for the elaboration of the processes required to assemble and install the system hardware, the preparation, maintenance and integration of the installation schedule and the associated resource and cost estimates, the conceptualization of the required tooling, and the identification and development of the necessary enabling technologies.</p>
Main duties / Responsibilities	<p>Supports the Section in all matters related to the assembly &amp; installation of plasma diagnostic systems;</p> <p>Develops assembly &amp; installation processes, ensuring consistency of approach &amp; conformity with the Construction schedule;</p> <p>Ensures that assembly interfaces are clearly defined between diagnostic components, interfacing systems, civil structures, &amp; respect all safety and environmental constraints;</p> <p>Participates in the evaluation of the engineering designs, provides expert guidance on design &amp; assembly aspects, and establishes the Constructability of the systems;</p> <p>Supervises the work of construction for diagnostic components in the worksite</p> <p>Coordinates the preparation of schedules, resource requirements &amp; cost estimates;</p> <p>Prepares the technical specifications for the associated site works contracts and reviews of the technical specifications for the engineering design of tooling;</p> <p>Identifies &amp; implements specific development tasks and / or feasibility studies which may be needed, including writing technical specifications, tendering &amp; managing contracts where appropriate;</p> <p>Where appropriate, participates in acceptance of components, including preparation of test &amp; acceptance criteria;</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan;</p> <p>Performs other duties linked to the above purpose upon management request, as necessary;</p> <p>Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p> <p>Reports to the Machine Assembly &amp; Installation Section Leader;</p> <p>Directly interfaces with project team at all levels;</p> <p>Interfaces directly with all ITER Organization Departments and Directorates;</p> <p>In response to requests from the Director-General and/or Project Control &amp; Assembly (PCA) Directorate Director, or proactively, informs the DG/PCA Directorate 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>Elaborates, maintains and implements the Assembly Plan for the plasma diagnostic systems;  Generates and maintains coherent, comprehensive and understandable documentation;  Maintains effective communication within the ITER Organization and with partner organizations;  Communicates with the designers of the ITER diagnostic components to formulate and validate the Assembly Plan and Procedures;  Completes the objectives set in agreement with the leader of the Machine Assembly &amp; Installation Section Leader on schedule and to cost.</p> <p>Project Construction Phase</p>
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## Applicant criteria

Level of study	At least Master's Degree or equivalent
Diploma	Nuclear Mechanical Engineering
Level of experience	At least 10 years
Technical experience	<p>At least 10 years' experience in the installation, commissioning and maintenance of remote measurement and/or control systems of large experimental devices, preferably in the field of fusion research or high energy physics;  A broad based, multidisciplinary knowledge of the advanced sensing and measurement systems including optical, microwave, magnetic measurement technologies, radiation shielding is required;  A working knowledge of 3D metrology techniques would be an advantage;  Familiarity with Ultra-High Vacuum installations would be a significant advantage.  5 years' experience in a coordination role;  Demonstrated ability to manage complex installation activities within highly congested worksites;  Ability to deliver quality results on tight timescales;  Extensive knowledge of Quality Assurance systems and their practical application;  Experience of international procurement, writing specifications and tendering;</p>
Project experience	At least 5 years
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	At least 5 years' experience in Project and site Construction Management is required.
Languages	English (Working)
Specific skills	Computer Aided Design, MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	<p>Proficiency in the use of the Microsoft Office suite of software;  Experience of CAD and PLM software would be an advantage.</p>