

IO1166 Vacuum Construction & Commissioning Officer CEP069

General information

Job category	Standard
Status	Published
Department	DIP/Directorate for Central Engineering & Plant
Division	CEP / Fuel Cycle Engineering Division
Section	CEP / FCE / Vacuum Section

Job description

Main job	Engineering - Vacuum technologies
Title of the position	Vacuum Construction & Commissioning Officer CEP069
Job family	Project engineering
Grade	G5
Direct employment	Required
Purpose	<p>To support the completion of the design and integration of the ITER vacuum systems and to provide project wide vacuum technical support in the preparation for and construction of, the ITER vacuum systems.</p> <p>To contribute to achieving reliable vacua which is key to the success of the ITER project. To prepare for and to commission ITER vacuum systems.</p>
Main duties / Responsibilities	<p>Participates in the design and integration of ITER vacuum systems (vacuum vessel, cryostat, neutral beams and auxiliary vacuum systems) having specific responsibility to support the design of the leak detection stations throughout their project lifecycle from concept design through to installation and commissioning in the vacuum pumping room.</p> <p>Supports the implementation of vacuum standards and standardization across the project, supporting Responsible Officers designing and procuring systems to minimize leak potential and maximize machine availability; specific obligations to handle vacuum material requests and approval process as project wide requirements of the ITER Vacuum Handbook.</p> <p>Integrates assembly and commissioning of the water vapor trapping system in vacuum pumping room.</p> <p>Determines and recommends leak testing methods and procedures for assembly including preparation and review of vacuum related assembly and test plans and procedures with the specific duty to cover in cryostat testing during assembly.</p> <p>Compiles and resource loads the Detail Work Schedule (DWS) for acceptance and assembly leak tests in concert with the construction schedule.</p> <p>Provides effective leadership for support teams of vacuum technicians and leak test personnel during vacuum related machine assembly.</p> <p>Provides follow up of vacuum procurements with the ITER Domestic Agencies.</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Breakdown Structure Schedule or 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 Leader of the Vacuum Section.</p> <p>In response to requests from the Director-General and/or Central Engineering & Plant Director, or proactively, informs the DG/ Central Engineering & Plant 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>Interfaces with IO and DA Responsible Officers for systems with interfaces with Vacuum and with the ITER assembly and integration team.</p> <p>Successfully implements guidelines and directives received from Section Leader.</p> <p>Successfully interfaces with other ITER Directorates, Domestic Agencies and maintains good communications and relationships.</p> <p>Successfully provides engineering and construction support for the project.</p> <p>Successfully progresses the task under Main Duties /Responsibilities.</p>

Applicant criteria

Level of study	Post-Secondary, Bachelor or Master degree
Diploma	Engineering or other equivalent appropriate traini
Level of experience	At least 10 years
Technical experience	<p>At least 10 years practical engineering experience in industry or on large construction projects.</p> <p>At least 8 years' experience in the design, construction and commissioning of high vacuum systems, preferably large systems for fusion or other high energy physics applications.</p> <p>Extensive experience in vacuum systems fabrication, welding and leak testing techniques.</p> <p>Experience work with demanding quality standards and experience working with codes and standards for pressure or nuclear equipment.</p> <p>Good knowledge of metallic fabrication and joining techniques.</p> <p>Good practical knowledge of factory acceptance tests and assembly testing.</p>
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	<p>Experience managing procurements, projects and scheduling.</p> <p>Experience coordinating small teams' activities of fitters and technicians.</p>
Languages	English (Working)
Free criteria	<p>Computer literate and confident with usual office applications.</p> <p>Experience with CAD applications.</p>