

# IO2073 Vacuum Piping Engineer VAS-001

## General information

Job category	Standard
Status	Published
Department	PED / Plant Engineering Department
Division	PED / Fuel Cycle Engineering Division
Section	PED / FCED / Vacuum Section

## Job description

Main job	Engineering - Vacuum technologies
Title of the position	Vacuum Piping Engineer VAS-001
Job family	Engineer - 1
Grade	P2
Direct employment	Not required
Purpose	<p>To contribute to the preparation of ITER vacuum systems, which are procured both through the ITER Organization (IO) and Domestic Agencies (DA) procurements, for installation.</p> <p>To initiate and complete engineering activities and technical coordination for the procurement, pre-manufacture and subsequent installation of ITER vacuum systems.</p> <p>To develop commissioning procedures and documentation required for the startup of ITER Vacuum Systems.</p>
Main duties / Responsibilities	<p>Participates in the design, integration, installation and subsequent commissioning of ITER vacuum stainless steel pipework systems which form a +10 Km network;</p> <p>Prepares technical specifications for the procurement of vacuum pipework systems spools and supports;</p> <p>Supports the coordination of vacuum pipework system design changes and engineering activities between the IO and DAs;</p> <p>Prepares technical reports required under the scope of vacuum pipework procurement contracts;</p> <p>Participates in the development of detailed installation sequences &amp; in the co-ordination with IO assembly and installation groups to develop construction work packages required for the installation of vacuum pipework systems;</p> <p>Follows-up with weld design and qualification for vacuum pipework systems;</p> <p>Supports the structural integrity validation of design changes required for integrations and installation;</p> <p>Participates in monitoring the progress of vacuum pipework procurement and installation contracts by preparing and reviewing technical documentation;</p> <p>May be required to work outside normal working hours, including nights, weekends and public holidays;</p> <p>Implements the technical control of the Protection Important Activities, as well as their propagation to the entire supply chain;</p> <p>May be requested to be part of any of the project/construction teams and to perform other duties in support of the project schedule;</p> <p>Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, ITER Values (Trust; Loyalty; Integrity; Excellence; Team mind set; Diversity and Inclusiveness) and Code of Conduct.</p>
Measures of effectiveness	<p>Reports to Vacuum Section Leader;</p> <p>Acts as an interface between IO and DA Responsible Officers for systems with interfaces with Vacuum systems.</p> <p>Effectively supports the completion of design activities on schedule;</p> <p>Meets project schedule via an efficient participation in the development of specific vacuum system commissioning procedures;</p> <p>Follows-up effectively procurement contracts to deliver systems to cost and schedule;</p> <p>Proposes installation plans to meet project schedules respecting constraints;</p> <p>Identifies and alerts management of risks to cost and schedule in a timely manner to avoid schedule slippage and cost increase;</p>

Demonstrates ability to make critical assessments of construction sequences and to propose alternate sequences to optimize the use of resources.

SAP ID 50003554

Project Construction Phase

## Applicant criteria

Level of study	Master or equivalent degree
Diploma	Mechanical Engineering
Level of experience	At least 5 years
Technical experience/knowledge	<p>At least 5 years engineering experience in industry or on large complex construction projects; combined with an experience in mechanical engineering;</p> <p>Experience related to vacuum linked to large vacuum pipework systems is considered as an advantage;</p> <p>Experience with design and manufacturing codes;</p> <p>Experience with using CAD and structural analysis tools;</p> <p>Experience working with small teams of technicians and/or engineers.</p> <p>Basic project management experience, preferably with more than one engineering project, is required;</p> <p>Ability to identify and alert management on both technical and schedule risks.</p>
General skills	<p>Collaborate: Ability to dialogue with a wide variety of contributors and stakeholders;</p> <p>Communicate Effectively: Ability to adjust communication content and style to deliver messages to work effectively in a multi-cultural environment;</p> <p>Drive results: Ability to persist in the face of challenges to meet deadlines with high standards;</p> <p>Manage Complexity: Ability to gather multiple and diverse sources of information to define problems accurately before moving to proposals;</p> <p>Instill trust: Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.</p>
Languages	English (Fluent)
Specific skills	Computer Aided Design
Others	<p>Computer literate and confident with Microsoft Pack Office applications;</p> <p>Experience with CAD applications on diagrams and drawings (P&amp;ID, 3D layout, isometrics).</p>