

# IO1977 Vacuum Engineer - PED-157

## 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 Engineer - PED-157
Job family	Coordinating Engineer
Grade	P4
Direct employment	No
Purpose	<p>To be responsible for the design and validation of vacuum system components and their integration. This responsibility includes overseeing the specification, procurement, manufacturing, installation, commissioning and operation. To be part of the transversal vacuum team, responsible for ensuring that ITER is built to the necessary engineering and vacuum standards.</p> <p>Develops design, manufacturing, installation, commissioning and operation of vacuum systems.</p> <p>Implements validation programs for safety systems to ensure that the nuclear safety functions are performed;</p> <p>Maintains and coordinates vacuum system interfaces to ensure proper system integration;</p> <p>Assures surveys manufacturing activities;</p> <p>Prepares strategies for efficient and quality installation in addition to contract specifications, plans and procedures;</p> <p>Develops mockups for installation and performance trials and training;</p> <p>Prepares commissioning procedures, operational schemes and maintenance plans;</p> <p>May be required to work outside ITER Organization reference working hours, including nights, weekends and public holidays;</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, values and ethics.</p>
Main duties / Responsibilities	<p>Special notice: May be requested to work on beryllium-containing components. In this case, you will be required to follow the established ITER Beryllium Management Program for working safely with beryllium. Full training and support will be provided by the ITER Organization.</p> <p>Reports to the Vacuum Section Leader;</p> <p>Acts as an interface between Vacuum and other technical Sections in the ITER Organization (IO) and with Domestic Agencies (DAs) and contractors;</p> <p>In response to requests from the Director-General and/or Plant Engineering Department (PED) Head , or proactively, informs the DG/Director of Head of PED 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>Assures completion of required effort on budget and on time;</p> <p>Assures Quality on products delivery;</p> <p>Responsible to implement practical, cost-effective, manageable and efficient solutions to assure objectives related to vacuum system components and their integration;</p> <p>Quality of communication with personnel associated with interfacing systems and management;</p> <p>Ability to work effectively in teams and contribute to the overall success of the ITER project;</p> <p>Performing work safely and with regard for safety in designs.</p>

## Applicant criteria

Level of study	Master or equivalent degree
Diploma	Mechanical Engineering/other relevant discipline
Level of experience	At least 10 years
Technical experience/knowledge	<p>At least 10 years' experience in complex vacuum systems design;            Experience in engineering in harsh and/or nuclear environments;            Knowledge of welding techniques and NDT codes            Good knowledge of vacuum leak detection techniques;            Excellent knowledge of vacuum, gas handling and gas dynamics;            Experience in managing contracts for vacuum components and systems;            Good Project Management experience is required;            Knowledge of cryogenics would be an advantage;            Extensive experience in similar jobs (involving similar work responsibilities) and/or additional training certificates in relevant domains may be considered a reasonable substitute for the required educational degree.</p>
Social skills	<p>Ability to work effectively in a multi-cultural environment , Ability to communicate effectively,            Ability to work under pressure, Collaborative, Ability to effectively multi-task, Good planning and organisational skills, Ability to hold and respect deadlines</p>
General skills	<p>Ability to facilitate dialogue with a wide variety of contributors and stakeholders;            Ability to adjust communication content and style to negotiate and deliver messages;            Ability to persist in the face of challenges to meet deadlines with high standards;            Ability to model high standards of team mindset, trust, excellence, loyalty and integrity.</p>
Languages	English (Fluent)
Specific skills	Computer Aided Design, MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	<p>Good command of MS Office;            Experience of using CAD tools;            Experience in using databases would be an advantage.</p>