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Ref. IO2107 - 5/6/2019

Vacuum Cryo-Pump Engineer PED-180

Main job Cryogenics

Department PED / Plant Engineering Department

Division PED / Fuel Cycle Engineering Division

Section PED / FCED / Vacuum Section

Job Family Engineer - 1

Application Deadline (MM/DD/YYYY) 06/09/2019

Grade P2

Direct employment Not required

Purpose As a Vacuum Cryo-Pump Engineer, you will support the manufacturing, acceptance testing as well as surveillance during the installation and commissioning of ITER's large custom cryogenic pumps.

It aims to prepare of a system of ~20 cryo-pumps for the operation. Being part of the vacuum team you'll provide support to ensure ITER is built to the necessary vacuum standards and to schedule.

Please note that an organizational restructuring is planned in accordance with the needs of the organization and the evolution of the project phases. In this context, the unit of assignment of the present position may be updated in late 2019, early 2020.

Main duties / Responsibilities Reviews the control of the manufacturing of the torus, cryostat and neutral beam cryopumps in collaboration with ITER's partners; Identifies, documents and surveys critical activities in the manufacturing of the cryo-pumping systems; Reviews and documents cryo-pump design changes resulting from change requests, manufacturing improvements or installations needs; Maintains and coordinates the interfaces of the cryo-pumping and other systems, within the ITER Organization (IO), with Domestic Agencies (DAs), and contractors; Prepares schemes and procedures for the installation and Factory Acceptance Tests / Site Acceptance Tests of the cryo-pump; Verifies the implementation of pressure equipment directives and standards, and Quality Assurance procedures in close relation with the Quality Management team; Prepares the commissioning procedures, operational schemes and maintenance scenarios to ensure the cryo-pumping systems will operate reliably; Prepares and performs commissioning of ITER's vacuum systems cryogenic components anticipates problems and alerts line management when necessary;; Issues inspection, observation and other regular progress reports when and where required; May be requested to work in shifts, outside ITER Organization reference working hours, including nights, weekends and public holidays; May be requested to be part of any of the project/construction teams and to perform other duties.

Measures of effectiveness Clarity and thoroughness of reports; Quality and timeliness of work products; Ability to find practical, cost-effective, manageable and efficient solutions to issues; Quality of communication with personnel associated with interfacing systems and management; Ability to work effectively in teams and contribute to the overall success of the ITER project; Performing work safely and with regard for safety in construction.

Level of study Master or equivalent degree

Diploma Mechanical Engineering or other relevant field

Level of experience At least 5 years

Technical experience/knowledge Excellent knowledge in vacuum and cryogenic design; Knowledge in the inspection and qualification methods of welded joints; 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;
At least 5 years' industrial experience in manufacturing and commissioning of complex mechanical, preferably of vacuum or cryogenic systems;
Good experience of working with pressure equipment directives and standards;
Experience in management of large manufacturing contracts for vacuum or cryogenic components and systems.

General skills Collaborate: Ability to dialogue with a wide variety of contributors and stakeholders;
Communicate Effectively: Ability to adjust communication content and style to deliver messages to work effectively in a multi-cultural environment;
Drive results: Ability to persist in the face of challenges to meet deadlines with high standards;
Manage Complexity: Ability to gather multiple and diverse sources of information to understand problems accurately before moving to proposals/solutions;
Instill trust: Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.

Others Proficient in the use of MS Office;
Experience of using CAD tools.

Languages French (Fluent)

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