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JOB DETAIL

Ref. IO2115 - 5/10/2019

Vacuum Mechanical/Commissioning Engineer PED-184

Main job Vacuum technologies

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)** 06/23/2019

Grade P2

Direct employment Not required

Purpose To finalize the mechanical design of the vacuum system components, test facilities and installation schemes.
To perform analysis and manage validation programs to ensure code, safety, and performance requirements are satisfied for vacuum equipment.
To develop installation & commissioning procedures as required for the installation of vacuum equipment / systems and promote their continuous application.
To prepare, coordinate and perform commissioning activities for ITER's vacuum systems.

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 Produces and develops the commissioning plan in support of the construction of ITER's vacuum systems and produces related progress reports;
Checks the correct implementation of the interfaces with other systems and produces related progress reports;
Checks the correct implementation of standards in relation with validation programs and related documentation;
Provides technical support in preparation for and during commissioning activities;
Prepares procedures for vacuum leak testing and performs vacuum leak testing when appropriate;
Coordinates activities related to performing and providing surveillance for ITER's systems vacuum leak testing;
Monitors contracts for testing jigs and mockups fabrication;
Produces Engineering Work Packages as final Engineering product to activate the installation process for Vacuum System;
Ensures a good communication and manages interface between Vacuum and other technical sections in the ITER Organization (IO) and with Domestic Agencies (DAs) and contractors;
May be requested to be part of any of the project/construction teams and to perform other duties;
Takes part in the on-call duty service established by the ITER Organization outside normal working hours, including nights, weekends and public holidays.

Measures of effectiveness Produces clear and thorough reports;
Ensures that work produced is of a high quality and on time;
Finds practical, cost-effective, manageable and efficient solutions for issues related to the defined scope of activities;
Communicates efficiently with personnel associated with interfacing systems and management in a professional manner;
Performs work safely and with regard for safety in construction.

Level of study Master or equivalent degree

Diploma Mechanical Engineering or other relevant discipline

Level of experience At least 5 years

Technical experience/knowledge At least 5 years' mechanical engineering experience either in industry or on large, complex construction projects, combined with mechanical experience preferably related to vacuum;
Knowledge of weld design and techniques used for stainless steel;
Practical experience in machining, fitting, lifting;
Experience in helium vacuum leak testing of complex components/systems;
Experience with using CAD and other software dedicated to structural analysis (e.g. ANSYS, GTStrudl, MARK);

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Experience in coordinating activities.

The required education degree may be substituted by extensive professional experience involving similar work responsibilities and/or additional training certificates in relevant domains.

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 analyze multiple and diverse sources of information to understand problems accurately before moving to proposals;
Instill trust: Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.

Others Good command of MS Office;
Experience of using CAD tools.

Languages English (Fluent)

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