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JOB DETAIL

Ref. IO1820 - 3/2/2017

Plant Engineer - PED-057

Main job Mechanics**Department** PED / Plant Engineering Department**Division** PED / Fuel Cycle Engineering Division**Section** PED / FCED / Tritium Plant Section**Job Family** Coordinating Technician**Application Deadline
(MM/DD/YYYY)** 04/16/2017**Grade** G5**Direct employment** Required**Purpose** To develop the design of the Fuel Cycle piping, component and plant systems design and integration and support its procurement and construction.

Main duties / Responsibilities

- Co-ordinates and produces schematic drawings, PFDs, P&IDS, 3D layout, BoMs and descriptive technical documentation for Fuel Cycle systems design and interfaces;
- Defines systems support structures and reviews load calculations and undertakes stress analysis;
- Develops mechanical guidelines and processes to support standardization and integration of best practices in the design of systems.
- Designs distributed Detritiation System piping networks, including integration with Tokamak Complex and Hot Cell facility buildings and interfaces;
- Supervises and follows up mechanical design activities assigned to Designers
- Supports management of material procurement, construction, installation and testing of Detritiation System pipe work within the joint IO/JA-DA Atmosphere Detritiation System Project;
- Assists in integration and system interfaces functional analysis activities for the Tritium Plant and other related systems (e.g. Radiological and Environmental Monitoring, Vacuum Pumping Systems and Test Blanket Module);
- Reviews the design of glovebox layout, space utilization studies, assembly and installation studies, building and glove box penetrations and associated design;
- Provides technical support in the preparation of technical specifications for external contracts;
- Performs other duties in support of the project schedule;
- May be requested to be part of any of the project/construction teams and to perform other duties;
- Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.

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. Training and support will be provided by the ITER Organization.

- Reports to the Tritium Section Leader;
- Acts as an interface between the ITER Sections and Divisions and with Domestic Agencies;

Measures of effectiveness

- In response to requests from the Director-General and/or Head of Plant Engineering Department(PED), or proactively, informs the DG/Head of PED Department 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.

- Co-ordinates work and works collaboratively to achieve on time delivery at the quality required
- Anticipates future needs and pre-emptively takes action to achieve goals;
- Finds practical, cost-effective, manageable and efficient solutions to issues;
- Communicates efficiently with personnel associated with interfacing systems and management;
- Performs work safely and with regard for safety in designs.

Project Construction Phase

Level of study Bachelor or equivalent degree

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My job alert

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|---------------------------------------|---|
| Diploma | Mechanical Engineering Design |
| Level of experience | At least 7 years |
| Technical experience/knowledge | <ul style="list-style-type: none">-Knowledge of plant design and construction in mechanical and piping fields;-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. <ul style="list-style-type: none">-At least 7 years' experience relevant to mechanical piping and plant design, integration and construction of complex gas/liquid handling facilities;-Experience in large design/build projects through all phases, i.e. conceptual, preliminary and final design, followed by manufacturing, installation and commissioning. |
| Social skills | Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit |
| Specific skills | Computer Aided Design MS Office standard (Word, Excel, PowerPoint, Outlook) |
| General skills | <ul style="list-style-type: none">-Technical communication;-Ability to provide line management with technical & verbal reports;-Pro-active attitude in addressing issues; |
| Others | <ul style="list-style-type: none">-Stress Analysis software CAESAR II would be advantageous.-Excellent CAD capability (2d and 3d), in particular AVEVA /PDMS and CATIA; |
| Languages | English (Fluent) |

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