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JOB DETAIL

Ref. IO1875 - 8/1/2017

Tritium Plant I&C Engineer - PED-056

Main job	Composite matters
Department	PED / Plant Engineering Department
Division	PED / Fuel Cycle Engineering Division
Section	PED / FCED / Tritium Plant Section
Job Family	Engineer - 2
Application Deadline (MM/DD/YYYY)	09/10/2017
Grade	P3
Direct employment	Required
Purpose	To be responsible for instrumentation and control (I&C) associated with the ITER Tritium Plant. To prepare and follow the fabrication, testing, installation, commissioning, operation and maintenance. To interface with ITER's central control systems teams. Work is performed in a formal, quality-assured environment consistent with a nuclear facility.
Main duties / Responsibilities	<ul style="list-style-type: none"> -Is responsible for the design and selection (in conjunction with Process Engineering) of field mounted instruments and control devices used in Tritium Plant systems (including control system interfaces and layout of control/electrical cabinets); -Identifies, defines and manages interface with ITER's centralized control systems ; -Plans and prepares I&C integration between Tritium Plant and other ITER systems; -Participates in the design and implementation of interlocks necessary for safety and equipment protection; -Provides follow up of Tritium Plant instrumentation and control procurements with suppliers and contractors, in collaboration with Procurement and Contracts Division; -Is responsible for compiling, reviewing and maintaining I&C design basis documentation according to ITER Management and Quality Program and documents; -Ensures provisions are made in designs for installation, testing, maintenance and commissioning; -Provides input to the equipment qualification program; -As much of the final design/build work will be performed by contractors, duties include procurement specifications and contractor deliverable control and monitoring to ensure requirements from ITER (the design authority) are properly propagated; -May be required to work outside normal working hours, including nights, weekends and public holidays; -Implements the technical control of the Protection Important Activities, as well as their propagation to the entire supply chain; -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.
Measures of effectiveness	<ul style="list-style-type: none"> -Reports to the Tritium Section Leader; -Acts as an interfaces between the ITER Sections and Divisions and with Domestic Agencies; -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. -Delivers work products in a timely, cost-effective manner and with sufficient quality; -Performs work safely and securely in all aspects of work including design; -Works harmoniously with others to achieving common goals. <p>Project Construction Phase SAP Id: 50000953</p>
Level of study	Master or equivalent degree
Diploma	electronic or instrumentation & control eng.
Level of experience	At least 8 years

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Technical experience/knowledge	<p>-Good knowledge of instrumentation calibration and qualification, particularly for devices used in high vacuum, clean and small bore tubing installations.</p> <p>-At least 8 years' experience relevant to instrumentation engineering design, integration and commissioning of complicated process plants; preferably tritium/hydrogen facilities;</p> <p>-Proven success in complicated chemical processing system control; preferably linked to nuclear facilities;</p> <p>-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> <p>-Hands on experience of industrial control and instrumentation equipment including PLCs, Field bus, HMI, SCADA, etc.;</p> <p>-Experience working to International Standards;</p> <p>-Experience in complex chemical processing process controls;</p>
Social skills	<p>Ability to work effectively in a multi-cultural environment</p> <p>Ability to work in a team and to promote team spirit</p> <p>Good negotiation skills</p>
Specific skills	<p>Computer Aided Design</p> <p>MS Office standard (Word, Excel, PowerPoint, Outlook)</p>
General skills	<p>-Preferably experience in vacuum measurement techniques, clean environments and/or cryogenic instrumentation;</p> <p>-Experience of engineering in nuclear environment and of the susceptibility of electronics to ionizing radiation and magnetic fields would be an advantage.</p> <p>-Ability to negotiate & influence;</p> <p>-Ability for technical decision making;</p> <p>-Ensures dissemination of information and knowledge.</p>
Languages	<p>English (Fluent)</p>

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