

IO1428 Detritiation System I&C Engineer PSE-142

General information

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| Job category | Standard |
| Status | Published |
| Department | DIP/Department for ITER Project |
| Division | PSE/Fuel Cycle Engineering Division |
| Section | PSE/ FCED/ Tritium Plant Section |

Job description

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| Main job | Engineering - Control system |
| Title of the position | Detritiation System I&C Engineer PSE-142 |
| Job family | Engineer - EC |
| Grade | P1 |
| Direct employment | Not required |
| Purpose | <p>To provide engineering support in the field of Tritium Plant processing systems and confinement systems Instrumentation and Control (I&C), design and procurement, fabrication and on-site installation, commissioning and testing.</p> <p>To perform I&C work associated with atmosphere Detritiation Systems and Water Detritiation Systems packages.</p> <p>To support the classification of I&C important for safety, and development of control loops consistent with the given class.</p> |
| Main duties / Responsibilities | <p>Defines I&C of atmosphere Detritiation System and Water Detritiation System; Reviews I&C design of other Tritium Plant systems; Supports preparation of Pipe & Instrumentation Diagrams (P&IDs) for implementation of specific I&C functions; Participates in plant systems Functional Analysis, using methodologies such as FMEA and RAMI; Follows up the preparation of CAD drawings and diagrams by ITER Organization, Domestic Agencies (DAs) or suppliers for the I&C design such as control loop diagrams, control logic diagrams, and 3D layout models for the components and systems under her/his scope of work; Prepares documents on process control software definition for atmosphere Detritiation System and Water Detritiation System in accordance with their safety class; Supports Air Detritiation Centralized Procurement;</p> <p>Specifies interfaces with the ITER Central Control system and building nuclear Heating Ventilation Air Conditioning (HVAC) as part of the confinement systems; Follows up design, manufacturing, testing, installation and commissioning activities of I&C; Ensures the implementation of Quality Assurance procedures for design, manufacturing, testing and commissioning; Ensures Quality Control implementation during the whole process of the supply completion, from the design up to the commissioning moving through procurement and fabrication / assembly; Updates when required the Project Schedule associated with the fabrication, installation, testing and commissioning related to I&C and electrical engineering; Performs other duties in support of the project schedule as described in the Detailed Work Schedule or Strategic Management Plan; Performs other duties linked to the above purpose upon management request, as necessary;</p> |

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| Measures of effectiveness | <p>Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p> <p>Reports to the Tritium Plant Section Leader; Acts as an interface between all technical divisions, DAs and suppliers to support integration of atmosphere Detritiation Systems and other Tritium Plant systems I&C; In response to requests from the Director-General (DG) and/or Director of Plant System Engineering (PSE) Directorate, or proactively, informs the DG/Director 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> <p>Clarity and thoroughness of documents on design, fabrication, installation and commissioning of I&C for atmosphere Detritiation Systems and Water Detritiation System; Quality and timeliness of work products; Ability to find practical, cost-effective, manageable and efficient solutions to issues; Ability to communicate and to work effectively in teams and to contribute to the overall success of the Fuel Cycle design/build project; Performing work safely and with regard for safety in designs; Coordinating and directing efforts of the ITER Organization and the Domestic Agencies in respect to design, manufacturing, installation and commissioning of the atmosphere Detritiation System and Water Detritiation System.</p> |
| | Project Construction Phase |

Applicant criteria

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| Level of study | Master or equivalent degree |
| Diploma | Engineering (Instr.&Control/Chemical process, etc) |
| Level of experience | At least 2 years |
| Technical experience | <p>At least 2 years of experience in chemical industry, preferably with experience in multidisciplinary systems or first experience in nuclear industry, comparable with those mentioned above in the main key duties & responsibilities;</p> <p>Basic experience in large science or industrial facilities - preferably in an international environment - would be an advantage.</p> |
| Social skills | Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit |
| Languages | English (Working) |
| Specific skills | MS Office standard (Word, Excel, PowerPoint, Outlook) |
| Others | <p>Good knowledge required of applicable industrial Codes and Standards.</p> <p>Good knowledge of I&C diagrams (PFDs, P&ID, loop diagrams) standards;</p> <p>Experience in PLC programming (Preferably Siemens S7) would be considered as an advantage.</p> |