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## JOB DETAIL

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Ref. IO1874 - 8/1/2017

### Electromechanical Engineer - PED-102

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| **Main job** | Electricity |
| **Department** | PED / Plant Engineering Department |
| **Division** | PED / Electrical Engineering Division |
| **Section** | PED / EED / Coil Power Supply Section |
| **Job Family** | Coordinating Engineer |
| **Application Deadline (MM/DD/YYYY)** | 09/10/2017 |
| **Grade** | P4 |
| **Direct employment** | Not required |
| **Purpose** | -To be responsible for the ITER coil power supply instrumentation and control (I&C) integration and to follow up the detailed design, procurement, manufacturing, factory testing, installation and on site testing of the coil power supply system I&C system.<br>-To be responsible for the commissioning of (Coil Power Supply) CPS I&C, including commissioning on dummy load and the integrated machine commissioning.<br>-To be responsible for the operation of the Coil Power Conversion plant.<br>-To integrate and implement the earthing design for the ITER coil power supply system.<br><br>-Supervises the activities related to the ITER coil power supply I&C procurements to ensure that components will be designed, fabricated, tested and installed according to the requirements of the signed PA and the project schedule;<br>-Develops and implements the Coil Power Supply I&C integration plan and preforms the integration of the ITER coil power supply I&C to ensure the requirements are fulfilled, including safety, investment protection and operation; Implements the technical solutions to resolve design and integration issues related to I&C of ITER coil power supply (CPS); |
| **Main duties / Responsibilities** | -Maintains the interfaces with plasma control, CODAC, Central Interlock System (CIS) and Central Safety System (CSS), and coordinates with the plasma control system to ensure the consistent implementation at the ITER coil power supply I&C;<br>-Develops the earthing design for the entire coil power supply system to ensure the compatibility with the building and machine earthing, the electromagnetic compatibility, person safety, reliability and availability of the machine operation.<br>-Develops and implements the occupational safety and access control for the ITER coil power supply;<br>-Develops, implement the coil power supply I&C commissioning plan and procedure and preforms the commissioning, including commissioning on dummy load and the integrated machine commissioning;<br>-Implements and enforces ITER's Quality Assurance program for his/her scope of activity;<br>-Supports the licensing activities and safety assessment related functions in close collaboration with the Environmental and Nuclear Safety Division;<br>-Assures surveillance and witnessing of factory and site acceptance test, and execution of the integrated commissioning, including the required trouble shooting;<br>-Joins operation & maintenance activities, including on call duty operation team;<br>-May be required to work outside normal working hours, including nights, weekends and public holidays;<br>-Performs other duties in support of the project schedule ;<br>-May be requested to be part of any of the project/construction teams and to perform other duties;<br>-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics. |
| **Measures of effectiveness** | -Reports to the Coil Power Supply Section Leader;<br>-Interfaces between ITER Technical Responsible Officer (TROs) and DAs;<br>-In response to requests from the Director-General and/or the Head of the Plant Engineering Department (PED), or proactively, informs the DG/ Head of PED 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. |

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| | -Performs effectively the design, construction and commissioning activities of the Coil Power Supply Section for the scope of activities within the defined quality, cost and schedule;<br>-Ensures proper execution of Coil Power Supply design and analyses required to support the design, installation and commissioning of instrumentation and control of electrical components within the defined quality, cost and schedule;<br>-Contributes effectively the activities related to resolution of interfaces issues between electrical components, plant systems and CODAC;<br>-Maintains effective communications with all parties delivering subsystems.<br><br>Project Construction Phase<br>ID 50000242 |
| **Level of study** | At least Master's Degree or equivalent |
| **Diploma** | Electrical eng. or other relevant discipline |
| **Level of experience** | At least 10 years |
| **Technical experience/knowledge** | -Good knowledge of international electrical standards;<br>-Good knowledge on the safety relevant components.<br>-Strong knowledge in design and integration of electrical instrumentation and control systems for large electrical components and systems.<br><br>-At least 10 years' experience in managing design, installation and testing of high power, high current, switching components in industrial, or scientific environment, comparable to those of the ITER Coil Power Supply System, or projects of similar complexity;<br>-Good experience in the field of the control of large electrical system, comparable with those of the ITER power supply systems;<br>-Good experience in the construction installation and commissioning of components similar to those of ITER Coil Power Supply System;<br>-At least 3 years' experience in the operation of High Power Converters;<br>-Experience in coordinating technical staff activities;<br>-Good Project Management experience is required. |
| **Social skills** | Ability to work effectively in a multi-cultural environment<br>Ability to work in a team and to promote team spirit |
| **Specific skills** | MS Office standard (Word, Excel, PowerPoint, Outlook) |
| **General skills** | -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. |
| **Others** | -Good knowledge of Microsoft Office package tool;<br>-Good knowledge of running computer codes for transient and steady-state analysis of electrical system, including the modelling the control system, in particular for purpose of the dynamic behavior analysis;<br>-Good knowledge of software applications for development of 3D model and 2D schematics |
| **Languages** | English (Fluent) |

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