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Electromechanical Engineer - PED-072



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JOB DETAIL

Ref. IO1788 - 11/18/2016

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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 Engineer - 2 **Application Deadline** 12/29/2016 (MM/DD/YYYY) Grade P3 Direct employment Not required Purpose Responsible for the detailed engineering of the In-Vessel Coil busbars, from design to manufacture and assembly inside the Tokamak building, follow up the writing of technical specifications for the construction of prototypes, contribute to the development of the baseline documentation and assist in the development/implementation of quality assurance and quality control. Special Notice: The purpose of this position is limited to tasks necessary to produce the final design documentation and supporting analyses required to issue the Procurement Arrangement for the In-Vessel Coil busbars. Therefore, the employment contract will have 18 months duration. Main duties / -Drafts and follows up the production of the Final Design Responsibilities of the in-vessel coil busbars; -Contributes to the development of the detailed busbar routing inside the Tokamak building, including the final design of mechanical supports and anchoring components; -Contributes to the development of assembly procedures for the in-vessel coil busbars, including joints and supports: -Develops and reviews the manufacturing processes for DC busbar on high voltage insulation, including the electrical contact, and brazed joints, etc.; -Contributes to the writing of technical specifications for manufacturing trials and full scale prototypes; -Develops and implements the required quality assurance and quality control procedures; -Produces the 3D CAD models, and follows up the engineering and interface drawings; -Prepares Intermediate and Final Design documentation; -Performs other duties in support of the project schedule; -May be requested to belong to any 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 -Reports to the Coil Power Supply Section Leader; -Works closely with the Technical Responsible Officer for the In-Vessel coil busbars; -Interacts with other members of the Electrical Engineering Division and/or other Departments as required by the In-Vessel coil busbar design, in particular with the CAD office, integration and assembly teams; -Interacts with industries regarding fabrication and quality control as requested: -In response to requests from the Director-General and/or Head of 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. -Issues design plan; design description documents and Measures of interface sheets within the defined costs & schedule; effectiveness -Generates accurate CAD models, engineering and assembly drawings; -Draft efficiently assembly plans and of assembly and

| inspection plans, |
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-Timely & efficient contributions to critical qualification and testing;

-Maintains up to date documentation for the defined scope of work;

-Timely contributions to full-size mock-up trials; -Implements effectively quality assurance and quality control requirements for the design documentation and specifications of the busbars for the in-vessel coil activities.

Project Construction Phase Level of study Master or equivalent degree Diploma Electrical Engin. or other relevant discipline Level of experience At least 8 years -Extensive experience in similar jobs (involving similar Technical work responsibilities) and/or additional training certificates experience/knowledge in relevant domains may be considered a reasonable substitute for the required educational degree. -At least 8 years' industrial experience in design, manufacture and assembly of forced cooled electromechanical components for rated current and voltage above 15 kA, 5 kV with bolted and brazed joints is required; -Good experience in CAD and/or engineering/manufacturing drawing production and review -Proficient industrial manufacturing experience and series production of large electromechanical components fabricated with extruded conductor material and insulated with fiber glass VPI impregnated by epoxy resin is required; -Good knowledge of TIG, MIG welding system; -Good knowledge in non-destructive testing (NDT) techniques including ultrasonic, X-rays and applicable codes: Ability to work effectively in a multi-cultural environment Social skills Ability to communicate effectively Specific skills Ansys CATIA MS Office standard (Word, Excel, PowerPoint, Outlook) General skills -Experience with international codes and standards such as IEC and IEC for construction of large electromechanical components; -Practical experience in structural analysis using ANSYS would be an advantage. Others -Ability to both work in a team and coordinate a group of professionals; -Ability to communicate clearly and write technical reports and specifications in English; Languages English (Fluent)

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