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JOB DETAIL

Ref. IO1631 - 1/11/2016

Electro Mechanical Technician - PED-026

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| Main job | Mechanics |
| Department | PED / Plant Engineering Department |
| Division | PED / Electrical Engineering Division |
| Section | PED / EED / Coil Power Supply Section |
| Job Family | Coordinating Technician |
| Application Deadline (MM/DD/YYYY) | 01/31/2016 |
| Grade | G5 |
| Direct employment | Not required |
| Purpose | <p>To support the Electrical Engineering Division (EED) in all matters related to design of mechanical, hydraulic and ventilation parts which are necessary for major electrical and power electronic components of the ITER electrical systems.</p> <ul style="list-style-type: none">• Executes the engineering tasks, production of design documentation and execution of engineering analyses that are required to resolve issues associated with structures (civil and mechanical) required to support or anchor electrical components, including design of post-drill plates and secondary beams to anchor the systems.• Executes the mechanical, thermal and hydraulic design and analysis of busbars, including their supports and penetrations. |
| Main duties / Responsibilities | <ul style="list-style-type: none">• Participates to the thermo-hydraulic and heat transfer design required by the water and/air cooling systems of electromechanical and power electronic components.• Follows-up the design and production of Electrical Diagrams, Process Flow Diagrams (PFD), Piping and Instrumentation Diagram (P&ID), Loop Diagrams, Wiring Diagrams and Pneumatic Diagrams.• Reviews the work performed by Engineering Support Companies contracted by the ITER Organization to develop, compile and update Electrical and P&ID Diagrams that are related to the components that are under her/his responsibilities and alerts line management when necessary;• Witnesses qualification tests and factory acceptance tests related to the components that are under her/his responsibilities and alerts line management when necessary;• Checks the on-site contractor for installation, testing and commissioning of components that are under her/his responsibilities and alerts line management when necessary;• Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan;• May be requested to work in shifts and be part of any of the project team dealing with the above activities and perform other duties upon management request;• Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics. <ul style="list-style-type: none">• Reports to the Coil Power Supply Section Leader;• Acts as an interface between all members of the Electrical Engineering Division, ITER Design Office, Engineering Support Companies contracted by the ITER Organization and the ITER domestic Agencies;• In response to requests from the Director-General and/or |

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| | Plant Engineering Department (PED) Head or proactively, informs the DG/ PED Department Head 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. |
| Measures of effectiveness | <ul style="list-style-type: none">• Performs effectively the design and construction activities of the Electrical Engineering Division for the scope of activities;• Ensures proper execution of Mechanical Engineering design and analyses required to support the design and installation of electrical components.• Contributes effectively the activities related to resolution of interfaces issues between electrical components, plant systems and buildings.• Manages interface between ITER divisions and Domestic Agencies and maintains effective communications with all parties delivering subsystems. |
| | Project Construction Phase |
| Level of study | Bachelor or equivalent degree |
| Diploma | Electro-mechanical engineering |
| Level of experience | At least 7 years |
| Technical experience/knowledge | <ul style="list-style-type: none">– Strong competences in design and analyses of mechanical, hydraulic, ventilation and heat transfer systems, or Mechanical engineering, with basic knowledge of electrical systems;– At least 7 years' experience in design and/or installation of large Electrical and/or Mechanical components and systems, comparable with those of the ITER power supply systems. |
| Social skills | Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit Collaborative |
| Others | <ul style="list-style-type: none">– Experience in using tools for Mechanical Engineering analyses, both structural and process analyses.– Experience in using 2D tools for production of diagrams (Electrical and P&ID);– Experience in using 3D CAD tools is recommended. |
| Languages | English (Fluent) |