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JOB DETAIL

Ref. IO1772 - 9/30/2016

Electrical Engineer - PED-078

Main job	Electricity
Department	PED / Plant Engineering Department
Division	PED / Electrical Engineering Division
Section	PED / EED / Cable Management Sub-Section
Job Family	Engineer - 2
Application Deadline (MM/DD/YYYY)	11/13/2016
Grade	G6
Direct employment	Required
Purpose	-To support the Electrical Engineering Division in the lightning protection, insulation requirements and earthing. -To provide guidelines and assistance to the system design, to be compatible with the lightning protection, insulation requirements and earthing.
Main duties / Responsibilities	-Responsible to define the protection measures to reduce the risk of permanent failures of electrical and electronic systems due to lightning and earthing policy in the ITER plant; -Defines the protection measures, and produces guidelines and ITER specific rules to reduce the risk of permanent failures of electrical and electronic systems, caused by lightning strikes and overvoltage due to ground faults; -Produces design documentation, engineering analyses and technical specification related to lightning protection system for civil structures, electrical and electronic systems, insulation requirements and earthing; -Performs the integrated Lightning Protection engineering analysis for the full ITER facility (including buildings and Systems) and produces the Lightning Risk Analysis document; -Follows-up the implementation of the lightning protection and earthing by buildings and systems; -Produces the technical specifications and follows up the procurement of the lightning protection devices; -Tests of the lightning protection devices and earthing points and participates in the integrated commissioning and tests with the Systems; -Performs other duties in support of the project schedule; -May be requested to be part of any of the project team and perform other duties; -Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics. -Under the coordination of the Cable Management Sub-Section Leader reports to the Electrical Engineering Division Head; -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 PED Department 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. -Risk Analysis document associated to specific technologies; -Develops the technical Study of d. Integrated Lightning Protection for the full ITER facility (including buildings and Systems).
Measures of effectiveness	
Level of study	Project Construction Phase Master or equivalent degree
Diploma	Electrical Engineering

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RSS

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Level of experience	At least 5 years
Technical experience/knowledge	<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>-At least 5 years' experience in the design of lightning protection of civil structures and electrical equipment. -At least 2 years' experience in the procurement, installation and testing of lightning protection components and systems for civil structures and electrical equipment. -Experience in technical integration/coordination for the construction of large (science or industry) projects 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
Specific skills	CATIA MS Office standard (Word, Excel, PowerPoint, Outlook)
General skills	-Work experience in large scientific or industrial facility is required; -Basic Project Management experience is required.
Others	-Software tools designed to accurately analyze problems involving grounding/earthing electromagnetic fields, electromagnetic interference (such as CDEGS) is mandatory. -MicroSoft Office suite -Database knowledge would be an advantage -CATIA V5, See System Design and/or AVEVA would be an advantage
Languages	English (Fluent)

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