JOB DETAIL

Ref. IO2003 - 6/28/2018

Electrical Engineer PED-143

Main job	Electricity
Department	PED / Plant Engineering Department
Division	PED / Electrical Engineering Division
Section	PED / EED / Electrical Power Distribution Section
Job Family	Engineer - 2
Application Deadline (MM/DD/YYYY)	08/15/2018
Grade	P3
Direct employment	Not required
Purpose	The present opening may be used to fill other similar positions at the levels of P3 and/or P2, for which applications to PED-143 shall be considered. To manage engineering design activities, manufacturing, qualification, testing and commissioning in all matters related to the Emergency Power Supply components and systems dedicated to the supply of investment protection and safety relevant electrical consumers. The key facts and figures of the above listed electrical systems are: – Two trains of electrical distribution fully segregated. On each train, we can find: o Class-III power supply o Class-II power supply based on UPS and batteries o Class-I power supply based on DC chargers and batteries
Main duties / Responsibilities	• Is Technical Responsible Officer (TRO) for the design, procurement, qualification and testing of emergency power supply components and systems dedicated to the supply of investment protection and safety relevant electrical consumers according to Project Requirements rules as well as according to the licensing design basis; • Manages the Procurement Arrangement of the Emergency Power supply with the European Domestic Agency; • Follows-up with the licensing process and preparation of safety reports for the safety relevant emergency power supply (EPS) components; • Develops the operating description of the complete safety relevant and investment protection electrical distribution of the ITER Machine; • Develops and updates the relevant sections within the Electrical Design Handbook that are dedicated to safety relevant electrical components and systems; • Develops the initial installation sequence and schedules as per the installation of Emergency electrical systems in buildings on site and updates them when necessary; • Assures surveillance during installation activities as well produces the procedures for commissioning of the EPS Component and assures surveillance and direct participation in Commissioning of EPS System • May be required to work outside ITER Organization reference working hours, including nights, weekends and public holidays; • Implements the technical control of the Protection Important Activities, as well as their propagation to the entire supply chain; • May be requested to be part of any of the project/construction teams and to perform other duties in support of the project schedule; • Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics. • Reports to the Electrical Power Distribution Section Leader;
Measures of effectiveness	• In response to requests from the Director-General and/or PED Head, or proactively, informs the DG/PED 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. • Ensures quality results regarding design, procurement and construction for Emergency Power Supplies, within the defined scope and schedule; • Controls the activities related to the qualification of Emergency Power Supplies; • Effectively manages the interfaces associated with Emergency Power Supplies.

	Project Construction Phase
Level of study	Master or equivalent degree
Diploma	Electrical field
Level of experience	At least 8 years
Technical experience/knowledge	– At least 8 years' post graduate experience in design, construction, installation and testing of electrical components and systems of classes I, II and III power supplies; Good knowledge of the design details, technical requirements and nuclear safety functions of electrical distribution systems; – Good knowledge of international electrical standards and general design criteria for safety relevant components; –Good knowledge of Quality Assurance/Quality Control procedures for the design, installation, commissioning and operation of electrical components, including safety relevant components; –Knowledge of safety automation architectures and facilities usually used in nuclear plants would be considered an advantage; –Knowledge of French electrical standards for electrical installations in "Basic Nuclear Installation" would be considered an advantage;
Social skills	Ability to work effectively in a multi-cultural environment 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. – Ability to facilitate dialogue with a wide variety of contributors and stakeholders; – Ability to adjust communication content and style to deliver messages; – Ability to persist in the face of challenges to meet deadlines with high standards; – Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.
Others	– Working knowledge of French would be beneficial – Good knowledge of ETAP software application (www.etap.com) or equivalent tools for the design of power distribution system would be considered an advantage. – Good knowledge of Microsoft Office suite is mandatory
Languages	English (Fluent)