

ITER 국제기구 공모 직위 직무기술서 (32차)

□ 공모 직위

○ P급 1개 직위

분 야 / 소 속		직 위	Job No.
중앙 엔지니어링 (CEP)	Coil Power Supply and Distribution Section	Power Electronic Officer	CEP-026

○ G급 2개 직위

분 야 / 소 속		직 위	Job No.
중앙통합 엔지니어링 (CIE)	Mechanical Design Section	Design Coordinating Technology Specialist	CIE/CEP-057
안전/ 보안 (SAS)	Safety Control Section	Health & Safety Experienced Technician	SAS-016

P 급

IO1099 Power Electronic Officer - CEP 026

Job description

Main job	Engineering - Electronics
Title of the position	Power Electronic Officer - CEP 026
Type of contract	Project engineering
Grade	P2
Direct employment	Not required
Purpose	To supervise the design, procurement, construction, factory tests, installation, on-site acceptance tests, commissioning and start up of the ITER Alternative Current/Direct Current (AC/DC) coil power converters.
Main duties / Responsibilities	<p>Develops the design and integration of the ITER AC/DC power converters;</p> <p>Manages the interfaces within the components of the AC/DC power converters systems, particularly the interlocks, protection systems, plasma control, building and site layout;</p> <p>Supervises the contribution from the ITER Domestic Agencies (DAs); including design activities, manufacturing, testing and installation of the components delivered by the DAs within his/her scope;</p> <p>Oversees the development and monitoring of budget, resources, procurement and construction plans related to the activities under her/his responsibility;</p> <p>Evaluates design issues and provides reports to the Section Leader;</p> <p>Tracks and revises regularly the Project Schedule associated with the design, fabrication, installation, testing and commissioning of the components and systems;</p> <p>Implements guidelines and rules established by the line management;</p> <p>Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p>
Measures of effectiveness	<p>Successfully implements guidelines and rules established by the Coil Power Supply Section Leader and the Head of the Electrical Engineering Division;</p> <p>Successfully provides engineering support to the Coil Power Supply Section and the Electrical Engineering Division;</p> <p>Successfully manages the ITER AC/DC conversion system design integration and interface with other ITER systems;</p> <p>Successfully manages and follows-up the work of the Das and the Engineering Support companies;</p> <p>Successfully maintains effective communications with all parties delivering subsystems.</p>

Applicant criteria

Level of study	Master or equivalent degree
Diploma	Power Electronic Engineering
Level of experience	5 to 9 years
Technical experience	<p>5 to 9 years' work experience in an industrial or scientific environment in design, installation and testing of AC/DC power conversion systems, above 100 MVA, 25 kA, comparable to those required for ITER or projects of a similar complexity;</p> <p>Good knowledge of the design details, technical requirements and protection systems of large AC/DC power converters comparable to those required for the supply of the ITER magnet system;</p> <p>Good knowledge of the control, protection and interlocks of a large AC/DC conversion plant;</p> <p>Good ability to draft and revise technical reports, documentation and project plans;</p> <p>Experience in running computer codes for transient and steady-state analysis of power converter and electrical circuit.</p>
Project experience	1 to 2 years
Social skills	<p>Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit, Ability to communicate effectively, Collaborative, Positive outlook</p> <p>The following optional qualifications will be considered an advantage:</p> <p>Previous work experience in design, construction and operation of AC/DC conversion systems for Tokamak fusion devices; or large science facilities;</p> <p>Previous work experience in design, construction and operation of AC/DC conversion systems</p>

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IO1100 Design Coordinating Technology Specialist CIECEP57

Job description

Main job	Engineering - Design
Title of the position	Design Coordinating Technology Specialist CIECEP57
Type of contract	Project engineering
Grade	G4
Direct employment	Required
Purpose	<p>To control and manage Computer-Aided Design (CAD) data and related databases for Diagnostic Systems.</p> <p>To support the project in the configuration and interface control related to dedicated zones or components.</p> <p>To support the Department Responsible Officer (RO) in relation to their component(s) or system (s) concerning the integration aspects and CAD quality over the entire lifecycle (from design to manufacturing and installation).</p> <p>To support the project in performance & quality measurement of the CAD activities.</p>
Main duties / Responsibilities	<p>CAD activities:</p> <ul style="list-style-type: none"> -Ensures the quality of CAD data and database structures related to the component or system; -Assists the Section Leader in the resource distribution of Designers and coordination of their design activities; -Implements CAD Work and Data Procedures, CAD Manual, processes and procedures; -Organizes / participates in kick-off meetings; -Follows-up the design including interface analysis & management, data structure & meta-data checking, Product Breakdown Structure (PBS) implementation, etc; -Exchanges CAD data and related interactions with ITER Partners; -Identifies system malfunctions; -Interacts with the Division Catalogues and auxiliary Division-related activities; -Pilots activities to assess, develop and deploy new software and migration; -Contributes to training, coaching and development of methodologies, related guides and the CAD Manual. -Enforces the coherence between Detailed Models (DM) and Configuration Models (CM). -Supports the RO in interactions with External Contributors regarding CAD activities; -Enforces the system design coherence between 2D schematics and 3D system layout and relative reference numbering; -Ensures the proper use of Equipment & Systems functions and the standard parts from the catalogues. <p>Integration activities:</p> <p>Contributes to:</p> <ul style="list-style-type: none"> -The configuration, integration control, reports on interface issues, resolving possible clashes between systems/components and suggesting solutions; -The integration for dedicated zones/areas including the context definition emphasizing on the baseline models related to the phase of the project; -Change Management (drafting/approval/versions/options); -The long-term knowledge of the CM & DM. <p>Develops & maintains the CM (assisted by the CAD Designers) with Design Integration Section (DIN) supervision.</p>
Measures of effectiveness	<p>Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p> <p>Successfully provides an efficient and high quality service to the ITER Design Office and effectively contributes to the design development;</p> <p>Successfully develops further technical capabilities, flexibility, CAD tool control and team spirit;</p> <p>Successfully supports the objectives and interests of the ITER Project;</p> <p>Successfully establishes a good collaborative relationship with all involved internal and external organizations.</p>

Applicant criteria

Level of study	Bachelor or equivalent degree
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Diploma	Process/Mechanical Engineer/Computer Aided Design
Level of experience	At least 5 years
Technical experience	<p>At least 4 years' experience (including experience as Leading Designer) in a Plant and/or Mechanical Design Office in a multi-disciplinary project and preferably performed in a remote design collaboration environment;</p> <p>At least 3 years' experience in the implementation of engineering activities in addition to specifically working on requirement definitions, conceptual, pre-detailed and detailed studies, definitions of complex interface systems, preliminary sizing, manufacturing specifications, contract monitoring, etc;</p> <p>Previous experience in the design of diagnostics systems; complex structures, preferably in fusion and/or nuclear energy involving large welded and bolted components and structures, support systems, circuits & buildings and complex interfaces would be an advantage;</p> <p>Demonstrated ability to produce high quality results which have stood the test of being manufactured, validated, installed and commissioned successfully;</p> <p>Knowledge of design analysis.</p>
Project experience	1 to 2 years
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit, Ability to organize and monitor activities, Ability to communicate effectively, Ability to work under pressure
Languages	English (Fluent)
General skills	CATIA

IO1088 Health & Safety Experienced Technician (SAS-016)

Job description

Main job	Safety - Security - Health
Title of the position	Health & Safety Experienced Technician (SAS-016)
Type of contract	Project support
Grade	G3
Direct employment	Required
Purpose	To support the Health and Safety Responsible Officer in occupational safety and health matters. According to the guidelines provided by the Health and Safety Responsible Officer: Implements Health and Safety measures in ITER premises (on the perimeter of the Cadarache centre and on the ITER site) for ITER staff and contractors; Completes and updates necessary documents: Health and Safety individual sheets, Document unique required by law, Prevention Plans, etc.; Organizes training courses on all matters related to occupational Health and Safety (e.g. first aid, safety for newcomers, etc.); Participates in development and maintenance of procedures for occupational Health and Safety;
Main duties / Responsibilities	Participates in the Prevention Plan development, anticipating potential hazards; Answers to departments' queries on Health & Safety related topic upon demand in a timely manner; Identifies, keeps and updates database of applicable legal requirements; Is part of the emergency response team and call on duty team; Takes part/leads incident and accidents investigations; Maintains a strong commitment to the implementation and perpetuation of the ITER safety program, values and ethics
Measures of effectiveness	Successfully provides efficient and high quality service to the Safety and Security Deputy Director General, Safety Control Division Head, Successfully makes records of Health and Safety in ITER. Successfully contributes to the development of a culture of Health and Safety in ITER.

Applicant criteria

Level of study	Bachelor or equivalent degree
Level of experience	At least 5 years
Technical experience	- A minimum of 5 years' experience in a similar position; - Experience in fire related matters and background as a trainer would be an asset.
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit, Ability to communicate effectively
Specific skills	High level of reliability, discretion, and confidentiality.
Languages	English (Fluent) French (Working)