

ITER 국제기구 공모 직위 직무기술서(제52차)

○ 2개(P급, G급) 직위(제52차)

구분	분야/소속	직 위	Job No.	등급
제52차	플라즈마 운영(POP) /Plasma Operation	Senior Scientific Officer	POP-009	P4
		Technical Coordinator	POP-025	G4

IO1150 Senior Scientific Officer POP-009

Job description

Main job	Science - Plasma physics
Title of the position	Senior Scientific Officer POP-009
Job family	Scientific coordination
Grade	P4
Direct employment	Not required
Purpose	To support the Plasma Operation Directorate Director in the coordination of and contribution to the development of a comprehensive integrated tokamak plasma modelling capability for ITER and in the definition of relevant physics and code requirements to meet ITER needs. This involves close interaction with the ITER Parties in the specification, implementation and monitoring of relevant activities.
Main duties / Responsibilities	<ul style="list-style-type: none"> - Leads contributions to the definition of ITER requirements for an integrated plasma modelling capability for the analysis of ITER plasma operation scenarios and of physics processes determining plasma behavior and fusion performance; - Defines and manages a program of modelling and theory research & development (R&D) activities to support the development of a comprehensive integrated modelling capability for tokamak plasmas; - Contributes significantly to the specification and analysis of ITER plasma operation scenarios through a leading role in the provision of an integrated plasma modeling capability; - Contributes significantly to the planning for ITER plasma commissioning and operation; - Is responsible for the integration of R&D results and analysis from the ITER Parties on all aspects of integrated plasma modelling and the exploitation of the results for the enhancement of ITER's integrated plasma modelling capability; - Interacts with and co-ordinates experts in the ITER Parties in the definition, implementation and monitoring of activities in this area; - Contributes to the preparation of documentation defining operational performance requirements for ITER plasma scenarios and synthesizing predictions of ITER performance; - Is responsible for making provisions of support to the management of the Plasma Operation Directorate in liaising with the ITER construction activities; - Coordinates ITER staff and visiting researchers' activities in the area of integrated tokamak plasma modelling; - Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.
Measures of effectiveness	<ul style="list-style-type: none"> - Successfully implements an R&D program supporting the development of a comprehensive integrated fusion plasma modelling capability for ITER and effectively supports the definition of ITER plasma operation scenarios and the planning for ITER plasma operation; - Successfully develops a team activity in these areas of ITER physics and maintains effective support for ITER construction activities in related areas; - Successfully develops R&D activities within the international fusion community in this area in support of ITER construction and the preparations for operation.

Applicant criteria

Level of study	PhD or equivalent degree
Diploma	Fusion Physics or other relevant discipline
Level of experience	At least 10 years
Technical experience	<ul style="list-style-type: none"> - Experience in fusion research, with significant project management experience and proven technical leadership abilities; - Outstanding expertise in modelling and theory aspects of fusion physics; - Extensive experience in managing international collaborations and demonstrated ability to represent an international organization such as ITER; - Experience in modern integrated modelling infrastructures to build, execute and manage plasma discharge planning and to assemble analysis applications from modular components for multiple users would be advantageous.
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit

General skills	- Basic Project Management experience is required; - Excellent written and verbal communication skills.
Languages	English (Fluent)
Specific skills	MS Office professional (Access, Project, Publisher, Visio), MS Office standard (Word, Excel, PowerPoint, Outlook)

IO1131 Technical Coordinator - POP-025

Job description

Main job	Technology - Technology
Title of the position	Technical Coordinator - POP-025
Job family	Scientific coordination
Grade	G4
Direct employment	Required
Purpose	<p>To provide support to the Test Blanket Module (TBM) Program activities in the Plasma Operation Directorate, in particular in the preparation and maintenance of technical documentation such as Interface Control Documents and Sheets, activities planning, safety and Quality Assurance (QA) documents, in the preparation of the TBM Design Reviews, in the monitoring of frames and dummy TBM Procurement Arrangements (PA), and monitoring the ITER Members TBM team activities.</p> <ul style="list-style-type: none"> - Provides support in the preparation and maintenance of the Interface Control Documents and Sheets related to the Test Blanket Systems; - Provides major support in the preparation and maintenance of the TBM Program planning and schedule with monitoring of the identified milestones and implementation of potential necessary corrective actions; - Provides support in the preparation of safety-related documents taking into account the information received from the ITER Members' TBM Teams and checking their coherence with the ITER safety requirements in collaboration with ITER Organization (IO) Safety Group; - Provides major support in the preparation of QA procedure documents taking into account the procedures implemented by the various ITER Members' TBM Teams and checking their coherence with ITER QA requirements in collaboration with the IO QA Team; - Participates in the drawing up of technical specifications for the engineering design and procurement activities concerning the TBM Program (i.e. TBM frames, dummy TBMs) and of the technical documentation related to the compatibility of the Test Blanket System (TBS) components design with Remote Handling requirements; - Provides major support in the monitoring of the ITER Members' TBM Team activities, in particular in ensuring the technical secretarial work of the Port Management Groups and the maintenance of the corresponding action lists; - Maintains technical documentation within a web-based archive system; - Provides support in the preparation of the technical documentation required for the periodical TBSs design reviews; - Provides technical assistance in the main technical meetings including those concerning the TBSs design reviews; - Provides coordination between Computer-Aided Design (CAD) activities in the ITER Members' TBM Teams and the IO CAD office; - Maintain a strong commitment to the implementation and perpetuation of ITER safety programme, values and ethics.
Main duties / Responsibilities	<ul style="list-style-type: none"> - Successfully supports the TBM Program in drawing up and maintaining technical schedules in line with the defined milestones; - Successfully generates and maintains coherent, comprehensive and clearly written documentation related to safety, QA procedures and meeting reports; - Successfully manages effective communication on the TBM Program technical activities within the ITER Organization.
Measures of effectiveness	

Applicant criteria

Level of study	Bachelor or equivalent degree
Diploma	Engineering or a related discipline
Level of experience	At least 8 years
Technical experience	<ul style="list-style-type: none"> - At least 8 years' experience in the preparation of technical documentation, and in particular concerning project management procedures; - A good knowledge of QA systems and their practical application; - Ability to write clear and concise reports and meeting records; - Working experience in the nuclear field and/or fusion would be an advantage;

	- Experience working on a website, web server and server program development would be an advantage.
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	- Good knowledge of computer software related to Project Management (e.g. Microsoft Office Project) and to other Microsoft Office software (Excel, PowerPoint, etc.); - Working knowledge of the CATIA V5 CAD software; - Knowledge of the Enovia data base would be an advantage.
Languages	English (Fluent)
Specific skills	Computer Aided Design, ENOVIA, MS Office professional (Access, Project, Publisher, Visio), MS Office standard (Word, Excel, PowerPoint, Outlook)