

## ITER 국제기구 공모 직위 직무기술서 (제161차)

### ○ 4개 직위

구분	분야	소속	직위	Job No.	등급
①	재무·조달 (FPD)	Procurement & Contracts Division Procurement, Construction, Assembly & Logistics Section	Procurement Responsible Officer	FPD-013	P4
②	플랜트 엔지니어링 (PED)	Plant Engineering Department Remote Handling & Radioactive Materials Division	Hot Cell Complex Design Engineer	PED-054	P3
③	과학·운전 (SCOD)	Science & Operations Department Operation Management Section/Division	ITER Machine Operation Officer	SCOD-018	P3
④	과학·운전 (SCOD)	Science & Operations Department Operation Management Section/Division	Tech Officer for Commissioning & Ops	SCOD-023	G4

# IO1726 Procurement Responsible Officer FPD-013

## General information

Job category	Standard
Status	Published
Department	FPD / Finance & Procurement Department
Division	FPD / Procurement & Contracts Division
Section	FPD / PCD / Procurement, Construction, Assembly & Logistics Section

## Job description

Main job	Business Administration - Procurement
Title of the position	Procurement Responsible Officer FPD-013
Job family	Coordinating Officer
Grade	P4
Direct employment	Required
Purpose	<p>To manage tenders and place contracts for the ITER Organization (IO), from the establishment of the contract strategy through to the closure of the contracts.</p> <p>To develop and propose contract strategies.</p> <p>To interface with suppliers for large Tenderers conference, negotiations, changes in the terms of contract.</p> <p>To chair large tender processes for in-cash contracts and/or joint tenders with the Domestic Agencies (DAs).</p> <p>To develop and propose improvements to existing processes and procedures.</p>
Main duties / Responsibilities	<p>Manages the procurement process for contracts of significant financial and operational impact, from the development of procurement plans, contract strategy to the preparation of the tender documents, the signature of the contract through to closure;</p> <p>Reviews and advises on technical specifications, proposes selection and award criteria, draft Instructions to Tenderers and special conditions of contracts;</p> <p>Manages and chairs evaluation committees, organizes the assessment of the tenders and leads negotiation of terms and conditions in the view of achieving the best value for the IO;</p> <p>Provides advice to the line management on appropriate contractual strategies and on the full range of procurement potential issues and contract management;</p> <p>Follows up on proper implementing of procurement plans and flag any problems to the SL;</p> <p>Assesses the financial and commercial performance of contractors and coordinates changes;</p> <p>Makes proposal to strategic procurement decisions;</p> <p>Provides input to continuous improvements in terms of procurement procedures and processes and contract terms and conditions templates, ;</p> <p>Develops the awareness on procurement methodologies, procedures and best practices within the Procurement and Contracts Division and also the ITER Organization's technical Department;</p> <p>Evaluates, prepares, and presents standard and ad-hoc status and progress reports;</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Breakdown Structure Schedule or Strategic Management Plan;</p> <p>Performs other duties upon management request, as necessary;</p> <p>Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p> <p>Reports to the Procurement Construction, Assembly &amp; Logistics Section Leader;</p> <p>Interfaces with IO Technical Responsible Officers, IO line management and with DAs representatives;</p> <p>Interfaces with suppliers;</p> <p>In response to requests from the Director-General and/or Head of the Finance &amp; Procurement Department (FPD), or proactively, informs the Director-General/ Head of FPD 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.</p>

Measures of effectiveness	<p>Timely deliver contracts in compliance with the IO rules and regulations;  Develop and execute Procurement Plans according the ITER Project schedule;  Successfully handle the negotiations with suppliers;  Interfaces effectively with Domestic Agencies for joint procurement strategies;  Rigorously implement IO Procurement Procedures for contract awards;  Successfully contribute to placing contracts.</p> <p>Project Construction Phase  50000110</p>
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Applicant criteria

Level of study	Master or equivalent degree
Diploma	in Law or Business Administration, Engineer degree
Level of experience	At least 10 years
Technical experience/knowledge	<p>Master's degree in the Law or Business Administration, Engineer Degree or other relevant discipline;  Excellent knowledge of procurement rules, preferably in public international procurement  At least 10 years' experience in procurement, within an international exposure;  At least 5 years of public procurement experience;  Proven relevant experience dealing with non-standard procurement requirements in a variety of sectors, especially for scientific and construction projects.  knowledge and practice of FIDIC contracts will be an advantage  Very good Project Management experience is required</p>
General skills	<p>Good interpersonal skills for dealing with a wide range of contracts;  Good organizational;  Proactive;  Ability to work effectively in a multi-cultural environment;  Ability to work in a team and to promote team work.  Fluent in English (spoken and written).</p>
Languages	English (Fluent)
Others	<p>Good command of the Microsoft Office package;  Proficiency in an Enterprise Resources Planning tool (SAP or similar).</p>

# IO1748 Hot Cell Complex Design Engineer - PED-054

## General information

Job category	Standard
Status	Published
Department	PED / Plant Engineering Department
Division	PED / Remote Handling & Radioactive Materials Division

## Job description

Main job	Engineering - Design
Title of the position	Hot Cell Complex Design Engineer - PED-054
Job family	Engineer - 1
Grade	P3
Direct employment	Required
Purpose	<p>-To be responsible for the design of the layout of the ITER Hot Cell Complex, including considerations of functional and safety optimization, accident analysis of the facility and associated documentation in support of future presentations to the French Nuclear Regulator.</p> <p>-The design activities includes many simultaneous optimizations including safety, remote maintenance efficiency, waste treatment, building design and cost containment, at the same time following best safety practices in nuclear facilities in France.</p>
Main duties / Responsibilities	<p>-Manages the physical layout of all processes within the Hot Cell Complex, including Remote Handling, Radwaste, Air Detritiation and Port Plug Test Facility;</p> <p>-Ensures the building layout meets the required functions of the Facility with respect to safety, function and cost containment;</p> <p>-Responsible for the safety and accident analysis of the processes and the building systems and associated documentation in preparation for future presentation to the French Nuclear Regulator;</p> <p>-Manages the support provided for the licensing activities in close collaboration with the Safety Department;</p> <p>-Provides nuclear safety and design support to the Remote Handling and Radioactive Materials (RHRM) Division and Plant Engineering Department;</p> <p>-Develops the required functional, operating and safety documentation procedures for the Remote Handling and Radwaste Treatment and Storage system in the Hot Cell &amp; Radwaste facilities in close collaboration with the involved interfaces;</p> <p>-May be requested to be part of any of the project team and perform other duties upon management request;</p> <p>-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p> <p>Special notice: May be requested to work on beryllium-containing components. In this case, you will be required to follow the established ITER Beryllium Management Program for working safely with beryllium. Full training and support will be provided by the ITER Organization.</p>
Measures of effectiveness	<p>-Reports to the Head of the Remote Handling and Radioactive Materials Division;</p> <p>-Interacts regularly with the Safety Department;</p> <p>-In response to requests from the Director-General or Plant Engineering Department Head, or proactively, informs the Director-General or Plant Engineering 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.</p> <p>-Completes the safety and design integration activities in a timely manner and within the defined cost;</p> <p>-Assures that ITER Organization's (IO) goals are achieved in a timely and effective manner, which meets safety, quality, cost and schedule targets;</p> <p>-Produces the necessary safety files according the approved schedule;</p> <p>-Optimizes the Hot Cell Complex facility design with respect to safety, function and cost;</p> <p>-Enhance the facility performance or reduce the facility costs while keeping the technical and safety requirements;</p> <p>-Provide efficient and timely support to the Remote Handling and Radioactive Materials Division</p>

safety and design integration activities.

Project Construction Phase  
SAP ID: 50001111

## Applicant criteria

Level of study	Master or equivalent degree
Diploma	Nuclear engineering field
Level of experience	At least 8 years
Technical experience/knowledge	<ul style="list-style-type: none"><li>-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;</li><li>-Expert knowledge and practical experience in nuclear, mechanical, process and radiation protection fields.</li></ul>
	<ul style="list-style-type: none"><li>-At least 8 years of experience in the field of nuclear safety and engineering, international experience would be an advantage;</li><li>-Significant experience in the field of nuclear fission and/or fusion installations;</li><li>-Significant experience in the safety integration and procurement of large and complex systems an facilities;</li><li>-Significant experience in nuclear safety and accident analysis, and associated documentation in both French and English;</li><li>-Good experience in complex and multidisciplinary projects.</li></ul>
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit, Good negotiation skills
General skills	-Ability to negotiate with influence and convince internal and external stakeholders.
Languages	English (Fluent)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)

# IO1750 ITER Machine Operation Officer - SCOD-018

## General information

Job category	Standard
Status	Published
Department	SCOD / Science & Operations Department
Division	SCOD / Operation Management Section/Division

## Job description

Main job	Engineering - Control system
Title of the position	ITER Machine Operation Officer - SCOD-018
Job family	Engineer - 2
Grade	P3
Direct employment	Not required
Purpose	<p>To ensure an efficient support in the matter of the investment protection and safe operation relating to ITER Machine Commissioning and Operation</p> <ul style="list-style-type: none"><li>-Ensures the coordination between the Commissioning and Operations activities, ITER Organization (IO) Departments and external stakeholders with regard to machine and plasma operation issues for the ITER construction phase, in particular regarding central instrumentation &amp; control, interlock and safety systems and collaboration with Plasma Operations;</li><li>-Prepares the specification and oversees implementation of adequate protection and control systems to protect the ITER Machine and maintain safe operations;</li><li>-Proposes, develops and produces specifications and procedures for ITER machine operation needs in the following areas:<ul style="list-style-type: none"><li>-Review of commissioning and operating procedures of plant systems;</li><li>-Command-control, interlock, safety and plasma control systems, and the associated man machine interfaces;</li><li>-Instrumentation for overall systems in relation to the needs for machine operation, technical parameter measurements, real time control loops and equipment protection;</li></ul></li><li>-Reviews functional requirements of systems and facilities for machine operations (man machine interfaces, communications, test facilities, systems for testing and commissioning), and develops the design of control rooms;</li><li>-Supports activities related to testing, commissioning and operation for all matters relating to machine operations;</li><li>-Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan;</li><li>-May be requested to be part of any of the project team and perform other duties upon management request;</li><li>-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</li></ul>
Main duties / Responsibilities	<ul style="list-style-type: none"><li>-Reports to the Operation Management Section/Division Head;</li><li>-Acts as an interface between the Science &amp; Operations Departments, other ITER Organization Departments and external stakeholders concerning machine operations issues;</li><li>-In response to requests from the Director-General and/or Science &amp; Operations Department (SCOD) Head, or proactively, informs the DG/ SCOD 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.</li></ul>
Measures of effectiveness	<ul style="list-style-type: none"><li>-Successfully aids the ITER Project to define and establish operations personnel, interfaces, tools and procedures;</li><li>-Contributes efficiently to the flow down of the ITER Concept of Operations to Plant Systems;</li><li>-Provides efficient support in managing the testing and commissioning of ITER systems and in ensuring the ITER machine enters into Operation successfully.</li></ul>
	<p>Project Construction Phase ID SAP: 50001009</p>

Applicant criteria

Level of study	At least Master's Degree or equivalent
Diploma	Nuclear Physics or Engineering field
Level of experience	At least 8 years
Technical experience/knowledge	<div>-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;</div> <div>-Knowledge of plasma engineering and physics principles relating to magnetic fusion devices, systems necessary to produce plasma discharges and associated real time control loops as well as machine protection interlocks and safety systems;</div> <div>-Knowledge of basic nuclear safety rules and security aspects (access, radioprotection, dose limits, waste, etc.);</div> <div>-Knowledge of ITER would be an advantage.</div>
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	<div>-At least 8 years' experience in operations of fusion devices with a broad experience in plasma control, command-control, data processing, instrumentation and plasma engineering;</div> <div>-At least 5 years' experience in the project management of fusion device operations, including control room and site control responsibilities;</div> <div>-Experience in nuclear devices would be an advantage</div>
Languages	English (Fluent)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	-Experience in computer systems and man-machine interfaces required for machine operations and control rooms.

# IO1749 Tech Officer for Commissioning & Ops - SCOD-023

## General information

Job category	Standard
Status	Published
Department	SCOD / Science & Operations Department
Division	SCOD / Operation Management Section/Division

## Job description

Main job	Engineering - Maintenance
Title of the position	Tech Officer for Commissioning & Ops - SCOD-023
Job family	Technician - 3
Grade	G4
Direct employment	Required
Purpose	<p>To support the preparation for the operation of the ITER machine and in particular the following areas:</p> <ul style="list-style-type: none"><li>-Contribute to technical aspects of planning and implementation of on-site testing and commissioning plans, schedules and procedures;</li><li>-Coordinate and plan the ITER on-site commissioning activities during the Construction Phase;</li><li>-Contribute to the development of operational procedures and plans;</li><li>-Technical risk analysis and control in terms of Investment Protection (IP).</li></ul>
Main duties / Responsibilities	<ul style="list-style-type: none"><li>-Supports the implementation of the plan for system commissioning and integrated commissioning, in collaboration with responsible officers for each system;</li><li>-Contributes to the preparation of detailed working plans (test procedures, schedule, on-site test facilities availability) for testing, commissioning activities for all ITER systems;</li><li>-Develops and reviews test procedures, test reports;</li><li>-During construction, participates in the coordination and execution of testing, commissioning, and operation activities;</li><li>-Inspects and witnesses tests and participates in acceptance and turnover of ITER systems;</li><li>-Contributes to the implementation of the ITER Investment Protection Policy;</li><li>-Supports the Operation Management Section/Division Head in the development of Operations Procedures and Plans;</li><li>-Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan;</li><li>-May be requested to be part of any of the project team and perform other duties upon management request;</li><li>-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</li></ul>
Measures of effectiveness	<ul style="list-style-type: none"><li>-Reports to the Operation Management Section/Division Head;</li><li>-Interfaces with all other Departments and Divisions as well as the Domestic Agency staff on testing, commissioning and operations related matters;</li><li>-In response to requests from the Director-General and/or the Science &amp; Operations Department (SCOD) Head, or proactively, informs the DG/SCOD 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.</li><li>-Successful establishment of Testing and Commissioning plan;</li><li>-Supports the update of the Testing and Commissioning plan in a timely manner;</li><li>-Establishes a good working relationship and regular information exchange within Operation Management Section/Division and with other departments on Commissioning and Operations matters;</li><li>-Successful establishment of operational procedures and plans.</li></ul>
	<p>Project Construction Phase ID SAP: 50000925</p>

## Applicant criteria



Level of study	At least Bachelor's degree or equivalent
Diploma	Engineering field or other relevant discipline
Level of experience	At least 5 years
	-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
Technical experience/knowledge	-At least 5 years of technical experience, having reached a high level of expertise working in the functional analysis of fusion-relevant plant systems, technical risk analysis, testing and commissioning within a large international research or scientific construction project; -Knowledge of magnetic fusion, Tokamaks and ITER 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, Ability to communicate effectively
General skills	Computer and IT Skills consistent with managing a complex developmental project.
Languages	English (Fluent)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)