

## ITER 국제기구 공모 직위 직무기술서(제71차)

### ○ 12개 직위

분야	소속	직 위	Job No.	등급
사무총장 비서실 (OAS)	Internal Audit Service	① Internal Auditor	OAS-001	P6
CODAC, 가열 및 진단(CHD)	Control System Division	② CODAC Section Leader	CHD-003	P5
중앙통합 엔지니어링 (CIE)	Assembly & Operations Division	③ Commissioning & Operations Section Leader	CIE-239	P5
		④ Assembly Cost Controller and Estimator	CIE-242	G5
중앙엔지 니어링 (CEP)	Plant Engineering Division	⑤ Cooling Water Piping Engineer	CEP-030	P4
	Electrical Engineering Division	⑥ Electrical Engineer	CEP-063	
	Fuel Cycle Engineering Division	⑦ Vacuum Construction & Commissioning Officer	CEP-069	G6
안전 · 품질 · 보안 (SQS)	Nuclear Safety and Licensing Division	⑧ Safety Analyst	SQS-028	P4
건설 부지 및 기반시설 (BSI)	Directorate for Buildings & Site Infrastructure	⑨ Infrastructure Engineer	BSI-055	P3
재무 · 예산 (FBM)	Finance, Budget & Management Systems Division	⑩ Data Management Engineer	FBM-115	P2
		⑪ Accountant	FBM-116	G4
		⑫ Accountant	FBM-005	G4

# IO1229 Internal Auditor OAS-001

## General information

Job category	Standard
Status	Published
Department	ODG/Office of the Director General
Division	Internal Audit Service

## Job description

Main job	Business Administration - Audit
Title of the position	Internal Auditor OAS-001
Job family	Specific jobs
Grade	P6
Direct employment	Required
Purpose	<p>To provide independent, objective assurance and consulting activity to add value and improve the ITER Organization's administration and operations;</p> <p>To bring a systematic and disciplined approach to evaluate and improve the effectiveness of organizational risk management, control and governance processes aiming to accomplish ITER Organization's objectives;</p> <p>To assist the ITER Organization's Director-General in the effective discharge of her/his responsibilities by furnishing her/him with objective analyses, appraisals, recommendations, counsel, and information concerning the activities reviewed.</p>
Main duties / Responsibilities	<p>Prepares at least annually a risk-based audit plan and resource estimate that are consistent with the Organization's goals, and have them approved by the Director-General and the Financial Audit Board;</p> <p>Assesses the adequacy of management systems for controlling, risk management, administration, budgetary and financial management and information technology governance, and reports the results of the consulting engagements;</p> <p>Follows-up on the implementation of the audit recommendations and ensures that improvements are made to reduce the residual risks to appropriate levels;</p> <p>Assesses the performance of organizational units to ascertain whether defined objectives have been achieved and whether those objectives were achieved efficiently;</p> <p>Assists in the formulation of appropriate anti-fraud policy, code of ethics and their implementation;</p> <p>Conducts special audit inspections and examinations at the request of the Director-General;</p> <p>Develops and establishes professional Internal Audit practices within the ITER Organization which are consistent with The Institute of Internal Auditors International Professional Practices Framework;</p> <p>Reports Advises directly to the Director-General on a routine basis, and after consultation with the Director General, to the Financial Audit Board on significant any internal audit matters relating to the internal audit, organizational risk management, controls and governance;</p> <p>Provides an official report at least annually to the Director-General and the Financial Audit Board concerning the internal audit programmes and activities;</p> <p>Supports the execution of the Strategic Management Plan and the Detailed Work Schedules defined by the Organization; executes and delivers work consistent with the allocated budget and contributes to the staffing of the Internal Audit Service;</p> <p>Performs other duties linked to the above purpose 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 regularly to the Director-General and periodically to provides information to the Financial Audit Board;</p> <p>Interacts on a daily basis with ITER staff members.</p> <p>Provides efficient and high quality assurance and consulting services to the Director-General, the Financial Audit Board and to the management in general;</p> <p>Sets up annual audit plan;</p>

Measures of effectiveness	<p>Provides reports and recommendations to improve ITER Organization's administration and operations;</p> <p>Answers to all Financial Audit Board requests after consultation with the Director-General;</p> <p>Responsible for adherence to technical standards;</p> <p>Establishes a positive and constructive relationship with all ITER staff members.</p> <p>SAP ID:5000656</p> <p>Project Construction Phase</p>
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## Applicant criteria

Level of study	At least Master's Degree or equivalent
Diploma	Business, Mgmt, Administrative, Financial or IT
Level of experience	At least 15 years
Technical experience	<p>Experience in audit and/or administrative management ;</p> <p>Working in business/technical processes, identifying risks, and developing and executing audit procedures;</p> <p>Working in application of international accounting and auditing standards and in creation/development of complex organizations with great risks.</p>
Project experience	2 to 4 years
People management experience	5 to 7 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 communicate effectively
General skills	<p>Internationally recognized professional accounting or audit qualification, e.g. Certified Internal Auditor, Certified Public Accountant, Certified Fraud Examiner and Chartered Accountant, or equivalent experiences during long period;</p> <p>A dual qualification or experience (business administration/technical would be an advantage) is desirable.</p> <p>Ability to lead a team of experts in audit/administration;</p> <p>Ability to provide effective leadership;</p> <p>Ability to motivate and develop the team members' skills and experience.</p>
Languages	English (Working)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook), SAP
Free criteria	Very good knowledge of information systems and Audit Software, e.g. ACL.

# IO1228 CODAC Section Leader CHD-003

## General information

Job category	Standard
Status	Published
Department	DIP/Directorate for CODAC, Heating & Diagnostics
Division	CHD / Control System Division
Section	CHD / CSD / CODAC Section

## Job description

Main job	Engineering - Control system
Title of the position	CODAC Section Leader CHD-003
Job family	Section Leader
Grade	P5
Direct employment	Required
Purpose	<p>To coordinate the CODAC (Control, Data Access and Communication) Section, which is responsible for the central control system for the ITER device;</p> <p>To manage and coordinate the completion of the design of the CODAC System;</p> <p>To manage the development and distribution of the CODAC Core System, which is the common software framework used by all plant systems, and to promote standardization to mitigate integration risks;</p> <p>To manage the development of the CODAC high level applications for supporting operation, orchestration, data handling, plasma feedback control and remote participation;</p> <p>To manage the development of the control system infrastructure including networks, computers and control rooms;</p> <p>To ensure strong interfaces with all stakeholders of the control system including plasma operation, machine operation, machine protection, safety, diagnostics and plant systems, both within ITER Organization and with Domestic Agencies and their suppliers.</p> <p>Coordinates task assignments, follow-up, and scheduling of the CODAC Section's activities;</p> <p>Provides effective leadership for the Section ensuring team members are motivated and constantly developing their skills and experience;</p> <p>Revises the ITER CODAC design documentation;</p> <p>Manages the development of software ensuring interfaces between high level CODAC services and plant systems based on CODAC Core System;</p> <p>Manages distribution and promotion of CODAC Core System and standardized hardware including training and user support;</p> <p>Manages the development of CODAC high level applications ensuring operability (supervision, monitoring, automation, plasma control, data handling and remote participation);</p> <p>Collaborates with teams from the Domestic Agencies to produce a design based on consensus;</p> <p>Structures various development and contractual activities related to CODAC;</p> <p>Organizes and plans the development and maintenance of the network, application server and control room infrastructure required for CODAC;</p>
Main duties / Responsibilities	<p>Is responsible for document and content management for CODAC activities;</p> <p>Contributes to all these activities, in collaboration with the ITER project teams and the CODAC development group;</p> <p>Supports effective risk identification and management;</p> <p>Executes and delivers the Detailed Work Schedule in support of the Strategic Management Plan for scope budget and schedule of the systems in the Section and contributes to the staffing of the Section;</p> <p>Assures that IO's goals are achieved in a timely and effective manner, which meets safety, quality, cost and schedule targets;</p> <p>Maximizes human capital and people's commitment to achieving the IO goals;</p> <p>Provides leadership in safety;</p> <p>Builds and maintains relationship with internal and external stakeholders;</p> <p>Performs other duties linked to the above purpose 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>

Measures of effectiveness	<p>Reports to the Control System Division Head;</p> <p>In response to requests from the Director-General and/or Director of CODAC, Heating &amp; Diagnostics, or proactively, informs the DG/ Director of CODAC, Heating &amp; Diagnostics 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 final design of the CODAC system including executing and closing out the final design review;</p> <p>Develops the design of interfaces of CODAC system with plant system I&amp;C, Central Interlock System and Central Safety System;</p> <p>Develops the design of interfaces of Central I&amp;C , CODAC, interlock and safety systems with the other ITER groups;</p> <p>Prepares technical specifications for procurements and contracts to complete the CODAC requirements;</p> <p>Manages the required components and equipment procurement;</p> <p>Develops cost effective plans and effective testing and installation plans;</p> <p>Maintains effective communication with all parties delivering subsystems for the CODAC system;</p> <p>Responsible for Section deliverables that meet safety standards, quality schedule and cost requirements;</p> <p>Responsible for implementation of safety nuclear regulation and other safety standards of the section's work;</p> <p>Responsible for adherence to technical standards.</p> <p>SAP ID: 50000295</p> <p>Project Construction Phase</p>

## Applicant criteria

Level of study	At least Master's Degree or equivalent
Diploma	Science, Engineering or other relevant discipline
Level of experience	At least 10 years
Technical experience	<p>Experience in a research environment, international experience would be an advantage;</p> <p>Experience successfully leading a control systems group for large physics experiments and also managing its planning and organizing its group activities;</p> <p>Experience integrating and commissioning large physics projects of a similar type.</p>
Project experience	4 to 5 years
People management experience	At least 5 years
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	<p>Ability to provide effective leadership;</p> <p>Ability to motivate and develop the team members' skills and experience;</p> <p>Ability to negotiate with influence and convince internal and external stakeholders.</p>
Languages	Proficiency of Linux
Specific skills	<p>Experience in state-of-the-art networking</p> <p>Knowledge of EPICS middleware will be an asset</p>
	English (Working)
	MS Office standard (Word, Excel, PowerPoint, Outlook)

# IO1232 Commissioning & Operations Section Leader CIE-239

## General information

Job category	Standard
Status	Published
Department	DIP/Directorate for Central Integration & Engineering
Division	CIE / Assembly & Operations Division
Section	CIE / AOP /Commissioning & Operations Section

## Job description

Main job	Engineering - Generalist
Title of the position	Commissioning & Operations Section Leader CIE-239
Job family	Section Leader
Grade	P5
Direct employment	Required
Purpose	<p>To lead the section responsible for the preparation and management of ITER Commissioning and Operations (C&amp;O).</p> <p>Manages preparations for the commissioning and operational phases, ensure operations requirements are defined, elaborate the concept of operations and prepare for system testing and integrated commissioning;</p> <p>Manages coordination between the division and the other directorates with regard to machine and plasma operation issues, in particular regarding instrumentation, control, interlock and safety systems in collaboration with Plasma Operations;</p> <p>Ensures specifications and procedures are produced for:</p> <ul style="list-style-type: none"><li>- Operating procedures and staffing;</li><li>- Command-control, interlock, safety and plasma control systems, and the associated man-machine interfaces;</li><li>- Instrumentation for machine operation;</li><li>- Systems and facilities for machine operations (control rooms, communications, access control).</li></ul> <p>Prepares and coordinates on-site Testing, Integrated Commissioning and subsequent Operations;</p> <p>Manages the C&amp;O Section, including establishing shift teams to supervise on-site activities during testing, commissioning and operations;</p> <p>This position may require shift work and the participation in regular stand-by duty, including nights, Sundays and public holidays, as dictated by the needs of the construction, commissioning and operations schedules.</p> <p>Provides effective leadership for the Section ensuring team members are motivated and constantly developing their skills and experience;</p> <p>Executes and delivers the Detailed Work Schedule in support of the Strategic Management Plan for scope budget and schedule of the systems in the Section and contributes to the staffing of the Section;</p> <p>Assures that ITER (IO) goals are achieved in a timely and effective manner, which meets safety, quality, cost and schedule targets;</p> <p>Maximizes human capital and people's commitment to achieving the IO goals;</p> <p>Provides leadership in safety;</p> <p>Builds and maintains relationship with internal and external stakeholders;</p> <p>Performs other duties linked to the above purpose 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>
Main duties / Responsibilities	<p>Reports to Head of the Assembly and Operations (AOP) Division;</p> <p>Acts as an interface with Division management and other Section Leaders of the AOP Division, the other Central Integration &amp; Engineering Divisions and IO Responsible Officers on all matters related to the operation and maintenance of the ITER machine;</p> <p>In response to requests from the Director-General and/or Director of the Central Integration &amp; Engineering Directorate (CIE), or proactively, informs the DG/ Director of CIE of any important and</p>

Measures of effectiveness	urgent issues that cannot be handled by the concerned line management and may jeopardize the achievement of the Project's objectives.
	<p>Manages the preparations for testing, commissioning and operation of the ITER Machine;  Delivers approved documentation in accordance with the Project schedule;  Implements the activities of the Section in accordance with the Project schedule and approved Budget.;</p> <p>Responsible for Section deliverables that meet safety standards, quality schedule and cost requirements;</p> <p>Responsible for implementation of safety nuclear regulation and other safety standards of the section's work;</p> <p>Responsible for adherence to technical standards.</p> <p>Project Construction Phase  Id: 50000094</p>

## Applicant criteria

Level of study	At least Master's Degree or equivalent
Diploma	Nuclear Physics, Engineering field or other
Level of experience	At least 10 years
Technical experience	Experience in operations and management of fusion devices with experience in plasma control, command-control, data processing, instrumentation and plasma engineering; international experience would be an advantage;
Project experience	At least 10 years
People management experience	At least 5 years
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	<p>Knowledge of plasma engineering principles related to the main magnetic fusion device systems and services necessary to produce plasma discharges and the associated real time control loops for equipment and human protection;</p> <p>Knowledge of basic nuclear safety rules and security aspects (access, radiation protection, dose limits, waste, etc.);</p> <p>At least 5 years' experience in supervising a team would be an advantage; ideally on a fusion device and in managing technical teams</p> <p>Ability to provide effective leadership;</p> <p>Ability to motivate and develop the team members' skills and experience.</p> <p>Ability to negotiate with influence and convince internal and external stakeholders.</p> <p>IT skills consistent with managing a complex developmental project</p>
Languages	English (Working)

# IO1230 Assembly Cost Controller and Estimator CIE-242

## General information

Job category	Standard
Status	Published
Department	DIP/Directorate for Central Integration & Engineering
Division	CIE / Assembly & Operations Division
Section	CIE / AOP / Machine Assembly & Installation Section

## Job description

Main job	Business Administration - Finance
Title of the position	Assembly Cost Controller and Estimator CIE-242
Job family	Experienced Functional Support - 3
Grade	G5
Direct employment	Required
Purpose	<p>To support the Machine Assembly &amp; Installation Section Leader in matters related to the maintenance of the lifecycle estimate for assembly and installation.</p> <p>To participate in the development of the annual budget and multi-annual forecasts for assembly and installation.</p> <p>To monitor financial performance against schedule targets and report earned value.</p> <p>To prepare cost estimates related to the execution of the site activities, scope transfers and to support the planned procurement activities of the section.</p> <p>Maintains and updates the lifecycle estimate for assembly and installation covering staffing and support resources, and procurement;</p> <p>Participates to the development/maintenance of the Machine Assembly &amp; Installation (MAI) Contracting Plan;</p> <p>Develops, in close collaboration with the Finance and Budget Division, the annual budget and multi-annual budget forecasts for the Section;</p> <p>Monitors financial performance against targets and delivers performance reports;</p> <p>Working with assembly, installation and tooling engineers, develops or procures independent cost estimates for MAI procurements at the highest level of detail given the constraints of time, manpower, and level of design and scope maturity of the particular procurement;</p> <p>Ensures compliance with project-wide financial, progress reporting and estimating systems, processes and standards;</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan;</p> <p>Performs other duties linked to the above purpose 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 Machine Assembly and Installation Section Leader , in the Assembly &amp; Operations Division;</p> <p>Acts as an interface with all Departments of the ITER Organization;</p> <p>In response to requests from the Director-General and/or the Director for Central Integration and Engineering, or proactively, informs the DG/Director for Central Integration and Engineering 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>
Main duties / Responsibilities	
Measures of effectiveness	<p>Carries out all of the duties/responsibilities described above;</p> <p>Generates and maintains coherent, comprehensive, and understandable documentation;</p> <p>Completes the objectives set in agreement with the Leader of the Machine Assembly and Installation Section:</p> <p>Ensures accuracy and reliability of the lifecycle and budget data;</p> <p>Ensures reliability and availability of the reports.</p>
	<p>Id: 50000879</p> <p>Project Construction Phase</p>



## Applicant criteria

Level of study	Bachelor or higher degree
Diploma	Business Admin, Finance or other relevant
Level of experience	At least 8 years
Technical experience	<p>Experience in the area of financial controls related to site construction works, covering plant installation, site management and support, mechanical assembly, on large, complex, multi-disciplinary construction projects;</p> <p>At least 5 years' technical cost estimating experience in the area of mechanical construction works, preferably within the Nuclear Industry;</p> <p>Highly proficient in all of the key areas of cost engineering and estimating, including the preparation and review of approximate, preliminary, definitive and detailed cost estimates, and knowledgeable about the generally accepted industry best practice in this area;</p> <p>Extensive knowledge of commercial contracting practices;</p> <p>Demonstrated ability to manage the development of estimating systems that are fully integrated with other project management systems such as Primavera, Cobra, Pertmaster, and SAP.</p>
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	<p>Certification from the Association for the Advancement of Cost Engineering qualification (or equivalent) is desirable, but not essential;</p> <p>Knowledgeable in the areas of project management, earned value performance measurement, risk management, tendering and contract administration, finance, budgeting, cost collection and job tracking;</p> <p>Ability to apply knowledge and original thinking to problem solving and issue resolution;</p> <p>Highly proficient in the use of commercial estimating software.</p>
Languages	English (Working)
Specific skills	Cobra, MS Office standard (Word, Excel, PowerPoint, Outlook), Primavera, SAP

# IO1212 Cooling Water Piping Engineer CEP-030

## General information

Job category	Standard
Status	Published
Department	DIP/Directorate for Central Engineering & Plant
Division	CEP / Plant Engineering Division
Section	CEP / PED / Cooling Water System Section

## Job description

Main job	Engineering - Mechanics
Title of the position	Cooling Water Piping Engineer CEP-030
Job family	System Engineer - 2
Grade	P4
Direct employment	Not required
Purpose	<p>To be responsible to oversee and coordinate the Cooling Water System (CWS) piping and pressure equipment design, procurement, installation and testing within the defined cost and schedule.</p>
Main duties / Responsibilities	<p>Oversees and coordinates the design, the layout and the procurement of the CWS piping systems made by industry according to the ASME B31.3.;</p> <p>Oversees and coordinates the design and the procurement of the CWS pressure vessels made by industry according to the ASME VIII div. 2;</p> <p>Oversees and coordinates the design of the CWS pressure equipment made by industry to be compliant to the ESP-ESPB French rules;</p> <p>Analyses and checks the stress analyses of the CWS piping systems made by industry and update the CWS load specification accordingly;</p> <p>Ensures the finalization of the design of the CWS Configuration and Detailed Model drawings and relevant interfaces in the Tokamak Complex, auxiliary buildings and the site;</p> <p>Ensures that the CWS piping and equipment design is properly integrated, installed and finally tested on the ITER site and with the interfacing clients;</p> <p>Review the documents, configuration models and drawings prepared by industry;</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Schedule and Strategic Management Plan;</p> <p>Performs other duties linked to the above purpose 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>
Measures of effectiveness	<p>Reports to the Cooling Water System Section Leader;</p> <p>Acts as an interface between the CWS design coordinator, Designers, and Domestic Agencies' staff and suppliers to monitor and support development and update of CMs;</p> <p>Acts as an interface between the Cooling Water System section and the interfacing client and user systems;</p> <p>In response to requests from the Director-General (DG) and/or Director for Central Engineering and Plant (CEP) Directorate, or proactively, informs the DG/ Director for CEP Directorate 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>Oversees and coordinates the Cooling Water System (CWS) piping and pressure equipment design, procurement, installation and testing within the defined cost and schedule;</p> <p>Provides all inputs necessary to design, procure, construct and test the CWS according to the defined schedule;</p> <p>Communicates effectively with other stakeholders and peers within the framework of ITER collaboration and the fusion community.</p>
	<p>ID Number : 50000206</p> <p>Project Construction Phase</p>

Applicant criteria

Level of study	At least Master's Degree or equivalent
Diploma	Mechanical, process engineering or other relevant
Level of experience	At least 8 years
Technical experience	Technical experience in the design and procurement of complex and large piping systems and pressure vessels; Minimum of 5 years technical experience in the installation and testing of complex industrial systems. Relevant experience in design codes for pressure vessels and piping systems in the nuclear field (e.g. ASME, ESP-ESPB, etc.).
Project experience	2 to 4 years
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	Excellent knowledge of design, procurement, installation and testing of complex piping systems and pressure vessels.
Languages	English (Working)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
Free criteria	Good knowledge of running computer codes for stress analysis of piping and support structures; Good knowledge of software applications for development of 3D model and 2D schematics.

# IO1224 Electrical Engineer CEP-063

## General information

Job category	Standard
Status	Published
Department	DIP/Directorate for Central Engineering & Plant
Division	CEP / Electrical Engineering Division
Section	CEP/ EED/ Coil Power Supply Section

## Job description

Main job	Engineering - Electricity
Title of the position	Electrical Engineer CEP-063
Job family	System Engineer - 2
Grade	P4
Direct employment	Not required
Purpose	<p>To lead and manage the system engineering activities for design, procurement, installation and commissioning of the ITER Reactive Power Compensation and Harmonic Filtering System (RPC&amp;HF), which includes three large Static Var Compensators (SVC), based on Thyristor Controlled Reactors (TCR) and tuned filters with a total rated power of 750 Mvar, directly connected to a 66 kV ac distribution system, without step down transformers.</p>
Main duties / Responsibilities	<p>Is the Technical Responsible Officer (TROs) for the procurement, installation and commissioning of the ITER Reactive Power Compensation and Harmonic Filtering (RPC&amp;HF) System to ensure that components and subsystems will be designed, fabricated, shipped and installed in accordance with the requirements specified in the Procurement Arrangement with the Chinese Domestic Agency (DAs), including the system and layout integration aspects;</p> <p>Develops and supervises the Reactive Power Compensation System schedule, including construction, installation, commissioning and operation;</p> <p>Evaluates the design issues, proposing and implementing actions required to resolve design, construction and installation issues;</p> <p>Develops the procedures for acceptance test and integrated commissioning for the component/system under the responsibility;</p> <p>Enhances ITER reactive power compensator system integration and maturity of the interface with other ITER systems;</p> <p>Performs analyses of the overall performance for the reactive power compensator system.</p> <p>Coordinates the Reactive Power Compensator and Harmonics Filter system installation and pre-operation;</p> <p>Is responsible of the Quality Assurance/Quality Control of components or systems;</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Schedule and Strategic Management Plan;</p> <p>Performs other duties linked to the above purpose 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 Coil Power Supply Section Leader;</p> <p>Acts as an interface between all technical divisions, to support excellent integration of the electrical installation, the DAs and contractors;</p> <p>In response to requests from the Director-General and/or Director of Central Engineering &amp; Plant (CEP) Directorate, or proactively, informs the DG/Director of CEP Directorate 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>Coordinates and directs efforts of the ITER Organization and the DAs in respect to design, fabrication, installation and commissioning of the ITER RPC&amp;HF System;</p> <p>Continuously updates integrated system analysis to verify the overall performance for the reactive power compensation, taking into account the design evaluation of the ITER coil power supply system;</p> <p>Maintains effective communication with all the interfacing teams of the ITER and the DAs.</p>

## Applicant criteria

Level of study	At least Master's Degree or equivalent
Diploma	in the Electrical Engineering field or other
Level of experience	At least 10 years
Technical experience	Experience in managing design, construction, installation and testing of SVCs system, comparable with those of the ITER RPC&HF systems; Good experience in monitoring/following up contracts for design, construction, installation and testing of large electrical components/subsystems; Good ability to draft/revise technical report/documentation and project plans; Experience in the design and installation of complex electrical system for Tokamaks and/or large superconductive magnets would be an advantage. Good experience in monitoring/following up contracts for design, construction, installation and testing of large SVCs, comparable with those of the ITER RPC&HF system;
Project experience	At least 5 years
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 the design details, technical requirements of SVCs; Good knowledge of Power Systems and Power Electronics; Good knowledge of international electrical standards.
Languages	English (Working)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
Free criteria	Good knowledge of running computer codes for transient and steady-state analysis of electrical system, including power converters, SVCs and power systems; Good knowledge of software applications for development of 3D model and 2D schematics.

# IO1215 Vacuum Construction & Commissioning Officer CEP069

## General information

Job category	Standard
Status	Published
Department	DIP/Directorate for Central Engineering & Plant
Division	CEP / Fuel Cycle Engineering Division
Section	CEP / FCE / Vacuum Section

## Job description

Main job	Engineering - Mechanics
Title of the position	Vacuum Construction & Commissioning Officer CEP069
Job family	Engineer - 1
Grade	G6
Direct employment	Required
Purpose	<p>To initiate and complete the design and integration of components of the ITER vacuum systems and to coordinate project wide vacuum technical guidance in the preparation for and construction of the ITER vacuum systems.</p> <p>To contribute to achieving reliable vacuum conditions which is key to the success of the ITER project.</p> <p>To prepare for and perform the commissioning of the ITER vacuum systems.</p>
Main duties / Responsibilities	<p>Is responsible for the design and integration of components of the ITER vacuum systems (vacuum vessel, cryostat, neutral beams and auxiliary vacuum systems) having specific responsibility to develop the design of the leak detection stations throughout their project lifecycle from concept design through to installation and commissioning in the vacuum pumping room;</p> <p>Implements vacuum standards and standardization across the project, supporting Technical Responsible Officers (TROs) designing and procuring systems to minimize leak potential and maximize machine availability; specific obligations to handle vacuum material requests and approval process as project wide requirements of the ITER Vacuum Handbook;</p> <p>Integrates assembly and commissioning of the water vapor trapping system in vacuum pumping room;</p> <p>Determines and recommends leak testing methods and procedures for assembly including preparation and review of vacuum related assembly and test plans and procedures with the specific duty to cover in cryostat testing during assembly;</p> <p>Compiles and resource loads the Detail Work Schedule (DWS) for acceptance and assembly leak tests in concert with the construction schedule;</p> <p>Provides effective leadership for support teams of vacuum technicians and leak test personnel during vacuum related machine assembly;</p> <p>Provides follow up of vacuum procurements with the ITER Domestic Agencies (DAs);</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Schedule and Strategic Management Plan;</p> <p>Performs other duties linked to the above purpose 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>
Measures of effectiveness	<p>Reports to the Vacuum Section Leader;</p> <p>Interfaces with IO and DA Responsible Officers for systems with interfaces with Vacuum and with the ITER assembly and integration team;</p> <p>In response to requests from the Director-General (DG) and/or Director of Central Engineering &amp; Plant (CEP) Directorate, or proactively, informs the DG/ CEP Director 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>Implements guidelines and directives received from Section Leader;</p> <p>Interfaces with other ITER Directorates, Domestic Agencies and maintains good communications and relationships;</p> <p>Provides engineering and construction support for the project;</p>

Progresses the task under Main Duties /Responsibilities.

ID Number : 50000232

Project Construction Phase

## Applicant criteria

Level of study	At least Bachelor's degree or equivalent
Diploma	In engineering or other equivalent
Level of experience	5 to 8 years
Technical experience	Practical engineering experience in industry or on large construction projects; At least 5 years' experience in the design, construction and commissioning of high vacuum systems, preferably large systems for fusion or other high energy physics applications; Extensive experience in vacuum systems fabrication, welding and leak testing techniques; Experience work with demanding quality standards and experience working with codes and standards for pressure or nuclear equipment; Good knowledge of metallic fabrication and joining techniques; Good practical knowledge of factory acceptance tests and assembly testing.
Project experience	2 to 4 years
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	Experience in managing procurements, projects and scheduling; Experience in coordinating small teams' activities of fitters and technicians.
Languages	English (Working)
Specific skills	Computer Aided Design, MS Office standard (Word, Excel, PowerPoint, Outlook)
Free criteria	Experience with CAD applications

# IO1231 Safety Analyst SQS-028

## General information

Job category	Standard
Status	Published
Department	SQS/Department for Safety, Quality & Security
Division	SQS/ Nuclear Safety and Licensing Division
Section	SQS / NSAD / Safety Analysis & Assessment Section

## Job description

Main job	Safety - Security - Nuclear Safety
Title of the position	Safety Analyst SQS-028
Job family	Organizational Support Domain Officer - 1
Grade	P4
Direct employment	Required
Purpose	<p>To lead the analysis of postulated accident scenarios as part of the safety case for ITER.</p> <p>To prepare documentation to be submitted to the nuclear safety authorities in the area of nuclear safety analysis.</p> <p>Supports the Safety Analysis and Assessment Section Leader in matters related to ITER ORGANIZATION (IO) safety analysis, particularly in the modeling of incident and accident scenarios related to fire or explosion;</p> <p>Defines postulated accident scenarios, sets up &amp; uses computational models of IO systems for analysis of the consequences of these scenarios, performs fire and explosion risk analyses, coordinates work of this type by other members of the team;</p> <p>Liaises with IO technical dpts in areas related to safety analyses, in particular buildings, ventilation systems &amp; fuel cycle systems;</p> <p>Coordinates studies performed under external contracts &amp; task agreements related to safety assessments, such as fire &amp; explosion risk analyses &amp; R&amp;D related to the risk of dust/hydrogen explosions;</p> <p>Takes editorial responsibility for relevant sections of documentation prepared for submission to the French nuclear safety authorities as part of the IO licensing process, some of the documents will have to be written in French;</p>
Main duties / Responsibilities	<p>Prepares responses to the demands of the nuclear safety authorities during the various stages of the IO licensing process, both written documents &amp; by presentations &amp; discussions with the authorities &amp; their technical advisors; some of the responses will have to be written in French;</p> <p>Contributes to IO project documentation, particularly in relation to safety analyses &amp; reviews IO design and procurement documentation for compliance with safety requirements, participates in design reviews;</p> <p>Shows strong commitment to the IO safety approach and enforces it through individual behavior within the IO;</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan;</p> <p>Performs other duties linked to the above purpose upon management request, as necessary;</p> <p>Maintains a strong commitment to the implementation and perpetuation of the IO Safety Program, values and ethics.</p>
Measures of effectiveness	<p>Reports to the Safety Analysis and Assessment Section Leader.</p> <p>Interfaces with all other IO departments, and with contractors and teams in the Domestic Agencies who are supporting safety analysis work;</p> <p>In response to requests from the Director-General (DG) and/or Director of the Safety Quality and Security Department (SQS), or proactively, informs the DG/SQS Director 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>Successfully builds-up and executes all functions as described above;</p> <p>Effectively coordinates the incident and accident analysis activities;</p>



Contributes to the acceptance of the IO safety case by the French Nuclear Safety Authorities.

Project construction phase  
SAP ID: 50000131

## Applicant criteria

Level of study	At least Master's Degree or equivalent
Diploma	Nuclear Engineering field
Level of experience	At least 10 years
Technical experience	Experience in analysis of nuclear systems, including safety analyses;
Project experience	2 to 4 years
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	<ul style="list-style-type: none"><li>- Knowledge of fire/explosion risks in a confined nuclear environment and experience in their calculation;</li><li>- Knowledge of fusion technology and experience in analyzing fusion systems;</li><li>- Familiarity with the principles of nuclear safety, understanding of their application to ITER and familiarity with the regulatory approach in France.</li><li>- Ability to coordinate and organize the work done by multiple contributors with different linguistic and cultural backgrounds;</li><li>- Ability to read and write documents in French would be an advantage.</li></ul>
Languages	English (Working)
Free criteria	Competent in running large computer simulations of complex systems, as well as good office computing skills.

# IO1234 Infrastructure Engineer BSI-055

## General information

Job category	Standard
Status	Published
Department	DIP/Directorate for Buildings & Site Infrastructure
Section	BSI / BSI-1 / Building System Section

## Job description

Main job	Engineering - Civil engineering
Title of the position	Infrastructure Engineer BSI-055
Job family	Engineer - 2
Grade	P3
Direct employment	Not required
Purpose	<p>To play a key role in the mission of the Buildings and Site Infrastructure Directorate which is primarily to ensure the oversight of the design and construction of the buildings and site infrastructure associated with the ITER project such that the project objectives in terms of cost, schedule and performance are achieved. To prepare, update and manage the design input data and other technical information necessary to fully define the ITER requirements for the project. To ensure the implementation of the ITER project management systems in particular those relating to oversight of contractors and suppliers.</p>
Main duties / Responsibilities	<p>Undertakes the day to day preparation, update and management of the technical documentation that forms the ITER requirements with a specific focus on the site infrastructure aspects of the ITER project;</p> <p>Is responsible for interfaces between the general site infrastructure and all interfacing systems by maintaining an effective communication;</p> <p>Analyses and prepares impact assessment of Project Changes Requests affecting buildings and site ;</p> <p>Assesses critically the designs prepared by the DAs and their contractors and takes an active role as a technical expert in design reviews relating to civil infrastructure engineering;</p> <p>Plans, and manages ITER reviews and audits of the designs produced by the domestic agency;</p> <p>Implements, and manages the implementation by others, of the ITER management policies, procedures and work instructions focusing on French regulatory requirements relating to Basic Nuclear Installations in particular the application of the ITER Quality Assurance (QA);</p> <p>Takes an active and lead role and manage meetings relating to the design and construction of the ITER infrastructure and ensuring meeting outcomes are consistent with ITER requirements;</p> <p>Undertakes on-site monitoring activities and audits to ensure that construction activities are carried out in accordance with approved designs. Ensures full traceability of activities from design through to as-built records implementing requirements of the French Nuclear Regulation. Writes technical documents, procedures and work instructions for the oversight activities;</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan;</p> <p>Performs other duties linked to the above purpose 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>
Measures of effectiveness	<p>Reports to the Building Systems Section Leader; Interfaces with other BSI Section Leaders, IO line management, IO staff and with DAs' technical personnel and contractors&amp; IO contractors.</p> <p>Interacts closely with staff from BSI, Technical Integration Division and Quality Assurance and Safety Division;</p> <p>In response to requests from the Director-General and/or Buildings and Site Infrastructure Director, or proactively, informs the DG/ Buildings and Site Infrastructure Director 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>Compliance of assigned tasks to the ITER schedule;</p> <p>Completion of technical responses within assigned timeframe;</p>

Number of technical documents drafted and reviewed successfully;  
 Contribution to technical meetings and level of positive feedback from attendees;  
 Positive feed-back from interfacing Technical Responsible Officers.

Id: 5-246  
 Project Construction Phase

## Applicant criteria

Level of study	At least Bachelor or Master/Engineering degree
Diploma	Civil engineering or other relevant discipline
Level of experience	At least 10 years
Technical experience	<p>Experience in the field of civil engineering, probably related to infrastructure, with a strong level of competence in both design and construction oversight;          Some experience of design and construction within a nuclear;          Experience of implementation of rigorous QA procedures and management of associated documentation, preferably in the nuclear field;          Experience of motivating and leading people to achieve outcomes and in managing technical meetings to achieve project goals;          Experience of basic project management concepts such as scheduling, Earned Value Management, task management;          Experience of problem solving in a multi-task environment to strict deadlines;</p>
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	<p>Strong ability to effectively communicate, both verbally and in writing, with Officers at all levels distributed throughout the Organization;          Ability to motivate others and be recognized as a motivating leader;          Ability to make decisions under stressful circumstances;</p>
Languages	English (Working)
Specific skills	Computer Aided Design, MS Office standard (Word, Excel, PowerPoint, Outlook)

# IO1235 Data Management Engineer FBM-115

## General information

Job category	Standard
Status	Published
Department	ADM/Department for Administration
Division	FBM / Finance, Budget & Management Systems Division
Section	FBM / Project Information System Section

## Job description

Main job	Computer Science - Database management
Title of the position	Data Management Engineer FBM-115
Job family	Organizational Support Officer - 1
Grade	P2
Direct employment	Not required
Purpose	<p>To plan, set up and maintain data management systems to support ITER construction activities covering design, manufacturing, assembly and commissioning.</p> <p>Is responsible officer for the implementation and maintenance of engineering data management systems ranging from industrial systems like Enovia and Intergraph to complementary in-house web application systems;</p> <p>Actively promotes the integration of those systems with the software application environment at the ITER Organization, which includes for example MS reporting services, SAP for contractual and financial data and Primavera for scheduling;</p> <p>Coordinates the IT technical activities on several service contracts for the data management systems development and maintenance, in liaison with the different directorates and users concerned. This may include the definition of IT technical specifications, the launch of new systems and the coordination of IT teams (on-site and off-shore);</p> <p>Gathers, defines and negotiates technical requirements based on systems' analysis and users' requests, for an efficient implementation with least costs and schedule optimization;</p> <p>Contributes to the cyber security implementation at ITER, and to the administration of IT systems in particular by providing advice on technical aspects, analyzing complex situations, and identifying and implementing improvements in view of efficiency;</p> <p>Maintains the web based user account management;</p> <p>Advises on new technologies (tablets, other operating systems, cloud,.. ) which could improve general user friendliness and make IT applications/systems/network more efficient;</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan;</p> <p>Performs other duties linked to the above purpose 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>
Main duties / Responsibilities	<p>Reports to the Leader of the Project Information System Section;</p> <p>In response to requests from the Director-General and/or General Administration Director, or proactively, informs the DG/ General Administration Director 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>Sets up of Intergraph system for assembly and commissioning of the ITER plant;</p> <p>Maintains permanent availability of IT systems used by the Design Office (Enovia) with uptime of 24/7;</p> <p>Maintains the Engineering database as main portal for engineering data at ITER;</p> <p>Guarantees a full integration of Systems such that redundant data silos are avoided.</p>
	<p>Project construction phase</p> <p>SAP ID: 50000290</p>

## Applicant criteria

Level of study	At least Bachelor's degree or equivalent
Diploma	Information technology field.
Level of experience	At least 5 years
Technical experience	Professional proven experience in IT system administration and data management projects; Experience in ASP.NET development, especially interconnecting different Microsoft systems; Experience in implementing IT security systems would be an advantage.
Project experience	2 to 4 years
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	<ul style="list-style-type: none"> <li>- Knowledge of share Point, especially in extracting / importing data lists;</li> <li>- Knowledge of Microsoft based IT system administration environment;</li> <li>- Experience in the management of software implementation projects;</li> <li>- Experience in coordinating the activities of IT experts and teams;</li> <li>- SAP knowledge would be an added value (especially the Project Lifecycle Management module).</li> </ul>
Languages	English (Working)
Free criteria	Knowledge of Microsoft and Linux systems.

# IO1233 Accountant FBM-116 & FBM-005

## General information

Job category	Standard
Status	Published
Department	ADM/Directorate for Finance, Budget & Management Systems
Division	FBM / Finance, Budget & Management Systems Division
Section	FBM/ FBD/ Accounting, Treasury & Systems Section

## Job description

Main job	Business Administration - Accounting
Title of the position	Accountant FBM-116 & FBM-005
Job family	Experienced Functional Support - 2
Grade	G4
Direct employment	Required
Purpose	<p>To ensure the compliance with the International Public Sector Accounting Standards (IPSAS) within the ITER Organization.</p> <p>To participate in the daily accounting and treasury operations.</p> <p>Two vacancies are opened on this position.</p> <p>Ensures the compliance of the financials with the IPSAS;</p> <p>Ensures the compliance of accounting operations with the Project Resource Management Regulations, Implementing Measures and other internal rules;</p> <p>Contributes to the preparation of the annual IO Financial Statements;</p> <p>Performs a semi-annual closing/review of the accounts;</p> <p>Coordinates the accruals processes and reporting;</p> <p>Prepares and proposes update for IO Accounting rules and procedures;</p> <p>Manages suspense accounts;</p> <p>Prepares relevant documents and reports for the Financial Audit Board;</p> <p>Performs Financial Analysis as required;</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan;</p> <p>Performs other duties linked to the above purpose 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 Accounting, Treasury &amp; Systems Section Leader;</p> <p>Works in close cooperation with other team members especially on the Year end closing and Property, Plant and Equipment and Intangible Assets;</p> <p>Interfaces with all ITER Organization Departments, Directorates, Division and Sections;</p> <p>In response to requests from the Director-General and/or Director for Finance Budget &amp; Management Systems, or proactively, informs the DG/ Director for Finance Budget &amp; Management Systems 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>
Main duties / Responsibilities	
Measures of effectiveness	<p>Contributes to the accuracy, certification and discharge of the yearly Financial Statements of the ITER Organization;</p> <p>Controls and issues reports tasks relating to the accounting and treasury within the assigned schedule.</p> <p>. Project construction phase;</p> <p>. SAP ID: 50000661 and 50000040.</p>

## Applicant criteria

Level of study	At least Bachelor's degree or equivalent
Diploma	Accounting

Level of experience	At least 10 years
Technical experience	Experience in accounting with at least 5 years' experience with IPSAS.
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
General skills	<ul style="list-style-type: none"><li>- Certified Professional Accountant;</li><li>- IPSAS training certification is required;</li><li>- Experience in financial analysis and forecasting Project Management, including earned value management, cost estimating, and project controls is an asset;</li><li>- Rigorous and reliable;</li><li>- Ability to write reports and communicate effectively in English is an asset.</li></ul>
Languages	English (Working)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
Free criteria	<ul style="list-style-type: none"><li>Good knowledge of SAP FI, AA, AP software or equivalent ERP;</li><li>Good command of SAP FM, MM or equivalent ERP system.</li></ul>