

## ITER 국제기구 공모 직위 직무기술서 (제140차)

### ○ 9개 직위

구분	분야	소속	직위	Job No.	등급
①	플랜트 엔지니어링 (PED)	Fuel Cycle Engineering Division Tritium Plant Section	Tritium Process Engineer	PED-023	P4
②		Plant Engineering Department Remote Handling & Radioactive Materials Division	Hot Cell Integration Engineer	PED-027	P4
③	건설 (CST)	Construction Department Construction Management Section/Division	Construction Interface Management Officer	CST-026	P4
④	토카막 엔지니어링 (TED)	Magnet Division TF Coil Section	Magnet Workshop and Assembly Engineer	TED-041	P3
⑤		Heating & Current Drive Division Neutral Beam Section	Neutral Beam Source Mechanical Engineer	TED-043	P3
⑥	중앙통합 (CIO)	Design Office Division Mechanical Design & CAD Infrastructure Section	AVEVA Applications Administrator	CIO-041	P2
⑦		Central Integration Office Design Integration Section/Division	Plant System Construction & Integration Engineer	CIO-044	P2
⑧	플랜트 엔지니어링 (PED)	Cooling Systems Engineering Division Cooling Water System Section	Structural & Layout Configuration Engineer	PED-024	P1
⑨	중앙통합 (CIO)	Central Integration Office Project Information System Section/Division	PLM Administrator	CIO-040	G5

# IO1613 Tritium Process Engineer - PED-023

## General information

Job category	Standard
Status	Published
Department	PED / Plant Engineering Department
Division	PED / Fuel Cycle Engineering Division
Section	PED / FCED / Tritium Plant Section

## Job description

Main job	Engineering - Nuclear Power
Title of the position	Tritium Process Engineer - PED-023
Job family	Coordinating Engineer
Grade	P4
Direct employment	Required
Purpose	<p>To perform and oversee the design and manufacturing of ITER Tritium Plant systems. The work involves requirements definition and implementation, technical trade studies, gas processing system design, value engineering, interface management, safety analysis, control systems, document preparation, and contract management. Work is performed in a formal, quality assured environment consistent with a nuclear facility.</p>
Main duties / Responsibilities	<p>Background information:</p> <p>The ITER Tritium Plant processing loop consists of individual processing systems which work together to store and supply gases (including tritium) for fusion reactor operation, to purify hydrogen isotopes and to remove tritium from tritiated species, to separate hydrogen isotopes and to detritiate effluent gases. Systems are designed to ensure confinement of radioactive gases.</p> <p>Is responsible for functional analysis and optimization of Tritium Plant system requirements and design solutions considering safety, risks, costs, and other constraints;</p> <p>Is responsible for compiling and maintaining design basis documentation and supporting documents using formal review procedures;</p> <p>Manages functional and physical interfaces insuring systems consistency and that the design results in harmonized, practical operation;</p> <p>Develops operational and maintenance strategies and design configurations;</p> <p>Develops and establishes installation, testing, and commissioning plans;</p> <p>Provides support for safety basis development and documentation;</p> <p>Contributes to Fuel Cycle computer modelling;</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>May be requested to be part of any of the project team dealing with the above activities 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>Reports to the Tritium Plant Section Leader;</p> <p>Interfaces through the Fuel Cycle Engineering Division Head with other Fuel Cycle groups;</p> <p>In response to requests from the Director-General and/or Plant Engineering Department (PED) Head, or proactively, informs the DG/ PED Head of any important and urgent issues that cannot be handled by the concerned line management and may jeopardize the achievement of the Project's objectives.</p>
Measures of effectiveness	<p>Capacity in design Tritium Plant according to French Rules and ASN prescriptions</p> <p>Clarity and thoroughness of documents provided within the defined schedule;</p> <p>Quality and timeliness of work products;</p> <p>Ability to find practical, cost-effective, manageable and efficient solutions to issues;</p> <p>Quality of communication with personnel associated with interfacing systems and management;</p> <p>Ability to work effectively in teams and contribute to the overall success of the Fuel Cycle</p>

design/build project;  
Performing work safely and with regard for safety in designs.

Project Construction Phase

## Applicant criteria

Level of study	Master or equivalent degree
Diploma	Chemical or nuclear engineering
Level of experience	At least 10 years
Technical experience/knowledge	<p>Good understanding of gas processing technologies, vacuum technology, hazardous and radioactive material handling.</p> <p>At least 10 years' experience relevant to engineering design, integration and commissioning of gas handling facilities;</p> <p>At least 5 years' proven success in complicated chemical processing system design and fabrication;</p> <p>Experience in large design/build projects through all phases, i.e. conceptual, preliminary and final design, followed by manufacturing, installation and commissioning;</p> <p>Experience in writing clear, well-organized technical documents in English;</p> <p>Good project management experience;</p> <p>Good experience in chemical engineering technologies.</p> <p>Experience in hydrogen processing systems is desirable.</p>
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
Languages	English (Fluent)
Others	<p>MS Office standard (Word, Excel, PowerPoint, Outlook);</p> <p>Skills in Computer Aided Design software (e.g. AVEVA).</p>

# IO1614 Hot Cell Integration Engineer - PED-027

## General information

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

## Job description

Main job	Engineering - Nuclear Power
Title of the position	Hot Cell Integration Engineer - PED-027
Job family	Coordinating Engineer
Grade	P4
Direct employment	Required
Purpose	<p>To contribute to the integration, safety, assembly, installation, commissioning and operation of the ITER Hot Cell Complex, including the Remote Handling and Radwaste Systems contained within.</p> <p>Note: the Hot Cell Complex includes the Hot Cell and Radwaste Facilities and the Personnel Access Control Building.</p> <p>Manages external R&amp;D, design, integration, safety, procurement, assembly and installation, Commissioning &amp; Operation of the ITER Hot Cell Remote Handling Systems;</p> <p>Manages external R&amp;D, design, integration, safety, procurement, assembly and installation, Commissioning &amp; Operation of the ITER Radwaste Treatment and Storage systems;</p> <p>Contributes to the interface of ITER with the French Authorities and with the French Disposal Facilities to which all ITER Radwaste will eventually be transported;</p> <p>Supports the licensing activities in close collaboration with the Safety Department;</p> <p>Supports the Plant Engineering Department systems engineering and integration activities;</p> <p>Establishes and updates the required baseline documentation and the design, interfaces, procurement, assembly, commissioning and operation technical documentation;</p> <p>Develops the required safety documentation and operating 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>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>Builds and maintains relationship with internal and external stakeholders;</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>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>Reports to the Head of the Remote Handling and Radioactive Materials Division;</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>Complete the design activities and procurement in a timely manner and within the defined cost;</p> <p>Enhance the system performance or reduce the system costs while keeping the technical and safety requirements;</p> <p>Provide efficient and timely support to the Remote Handling and Radioactive Materials Division integration activities.</p>
Main duties / Responsibilities	
Measures of effectiveness	Project Construction Phase

## Applicant criteria

Level of study	Master or equivalent degree
Diploma	Nuclear engineering field or other discipline
Level of experience	At least 10 years
Technical experience/knowledge	Expert knowledge and practical experience in nuclear, mechanical, process and radiation protection fields
	At least 10 years' experience in the field of nuclear engineering, in complex and multidisciplinary projects;
	International experience would be an advantage;
	Significant experience in the field of Hot Cells and/or Radwaste Processing;
	Significant experience in the integration and procurement of large and complex systems an facilities;
	Project and Contract Management experience is required.
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	Ability to negotiate with influence and convince internal and external stakeholders.
Languages	English (Fluent)

# IO1620 Construction Interface Management Officer CST-026

## General information

Job category	Standard
Status	Published
Department	CST / Construction Department
Division	CST / Construction Management Section/Division

## Job description

Main job	Engineering - Construction
Title of the position	Construction Interface Management Officer CST-026
Job family	Coordinating Engineer
Grade	P4
Direct employment	Not required
Purpose	<p>As part of the construction delivery support team, to be responsible for the management of interfaces that affect construction.</p> <p>To identify technical, operational and contractual interfaces and to proactively reach resolution of issues and ensure effective communications with engineers, construction managers and horizontally across the construction department.</p> <p>Ensures robust systems and processes to identify and manage interfaces that affect construction activities;</p> <p>Develops and maintains an overall interface plan covering all identified and potential interfaces;</p> <p>Establishes a system by which the IO construction department, engineers and contractors coordinate their activities to effectively manage interfaces;</p> <p>Is responsible for the interface between Engineering departments and the Construction Management-as-Agent contractor, in particular the exchange of Engineering Work Packages;</p> <p>Supervises the efficient processing of technical queries, requests for information, deviation requests and ensures with all affected parties that they are closed out in a timely manner, including supervision of the Construction Management-as-Agent contractor;</p> <p>Implements full coordination between Construction, Engineering and contractors to ensure timely exchange of information for correct preparation and execution of works;</p> <p>Analyses technical and operational issues, seeks solutions and ensures their implementation;</p> <p>Supervises the Construction Management-as-Agent contractor regarding the management of scope;</p> <p>Builds and maintains relationship with internal and external stakeholders;</p> <p>Anticipates any potential issue and reports to the line management with proposals of solutions when necessary;</p>
Main duties / Responsibilities	<p>Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan;</p> <p>May be requested to be part of any of the project team dealing with the above activities 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>Reports to the Head of the Construction Management Section/Division;</p> <p>Interfaces with other staff in the Construction Department, Engineering departments and the Construction Management-as-Agent contractor;</p> <p>In response to requests from the Director-General and/ Construction (CST) Department Head, proactively informs the DG and/or CST 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>
Measures of effectiveness	<p>Effective and timely management of interfaces, reductions in delays, claims and disputes;</p> <p>Ensures the timely and efficient treatment of Non-Conformance Report, Request for Information and technical queries;</p> <p>Ensures the efficient, timely and safe progress of construction works for their scope of work.</p>

## Applicant criteria

Technical experience/knowledge	Level of study	Master or equivalent degree
	Diploma	Engineering
	Level of experience	At least 10 years
		Knowledge of project management methodologies; At least 10 years' experience in engineering and construction management within complex construction projects;
		At least 5 years' experience working in interface management in construction projects; International experience of construction projects is required; Experience of construction in nuclear or other highly regulated industry is required; Experience in coordinating activities; Excellent safety record on previous projects.
	Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
	General skills	Leadership and ability to communicate widely in a multi-cultural environment. Ability to negotiate effectively in particular in relation to claims and disputes, to manage conflict and maintain efficient working relationships;
	Languages	English (Fluent)
	Others	Experience using modern project management tools.

# IO1611 Magnet Workshop and Assembly Engineer - TED-041

## General information

Job category	Standard
Status	Published
Department	TED / Tokamak Engineering Department
Division	TED / Magnet Division
Section	TED / MAG / TF Coil Section

## Job description

Main job	Engineering - Mechanics
Title of the position	Magnet Workshop and Assembly Engineer - TED-041
Job family	Engineer - 2
Grade	P3
Direct employment	Not required
Purpose	<p>To develop the Toroidal Field (TF) coil assembly procedures and specialized tooling.</p> <p>To supervise workshop activities on assembly mock-ups.</p> <p>To follow the qualification of major items of TF assembly tooling.</p> <p>To resolve problems and non-conformities arising during TF magnet production at Domestic Agencies (DAs) and suppliers.</p> <p>To develop TF assembly plan and documentation.</p> <p>To contribute to the Procurement Arrangement (PA) monitoring for magnet and to the development of TF coil commissioning plans.</p>
Main duties / Responsibilities	<p>Assists in maintaining interface between TF coils, structures, feeders and assembly tooling;</p> <p>Reviews TF coil manufacturing drawings, procedures and Quality Assurance (QA)/Quality Control (QC) documents generated by DAs and their suppliers;</p> <p>Reviews manufacturing, quality and test records generated by TF magnet suppliers;</p> <p>Writes technical specifications for procurement, test facilities, mock-ups and testing related to the TF coil and structures activities, and monitors the contract progression;</p> <p>Witnesses critical activities at magnet suppliers;</p> <p>Contributes to problem solving during magnet production and resolution/assessment of non-conformities reports;</p> <p>Develops assembly and inspection plans for TF magnet components;</p> <p>Develops TF assembly procedures;</p> <p>Performs verification, mock-ups and prototyping activities at the Magnet Workshop;</p> <p>Contribute to updates of TF magnet baseline documentation and interface sheets;</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>May be requested to be part of any of the project team dealing with the above activities 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>Reports to the TF Section Leader;</p> <p>Interfaces with magnet Procurement Arrangement Technical Responsible Officers (TROs) and Responsible Officers (ROs) in all sections of the Magnet Division.</p> <p>Interfaces with other departments as required by the magnet production, in particular with the CAD Office, the Cryogenic and Electrical Divisions, the Design Office and the Assembly;</p> <p>In response to requests from the Director-General and/or Tokamak Engineering Department Head, or proactively, informs the DG/ Tokamak 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>Supports efficiently the magnet Procurement Arrangement monitoring within the defined cost and schedule;</p> <p>Develops manufacturing drawings, monitors manufacturing and QA/QC plan development and</p>



Measures of effectiveness	<p>implementation in a timely manner;          Contributes to smooth problem solving and Non-Conformance Report resolutions;          Develops the assembly plan and procedure for his/her scope of work.</p>
	Project Construction Phase

## Applicant criteria

Level of study	Master or equivalent degree
Diploma	Engineering field
Level of experience	At least 8 years
Technical experience/knowledge	<p>8 years' experience in design, manufacture, assembly and integration of superconducting magnet and cryogenics systems</p> <p>Mechanical, material and electrical knowledge is a plus;</p> <p>Practical experience in assembly work and heavy duty handling of large structure with tight tolerances</p> <p>Familiarity of non-destructive examination techniques such as visual inspection, dye penetrant inspection, helium leak detection, ultrasonic inspection, and radiographic examination of welds and brazes, and applicable codes and standards for the implementation and acceptance criteria</p> <p>Good knowledge in structural, thermo-mechanical and thermo-hydraulic design, analysis and engineering assessment</p> <p>Experience with international codes and standards such as ISO, EN, RCC-MR, ASTM and ASME for construction of pressure equipment and/or nuclear equipment</p> <p>Experience / knowledge in assembly of large components operated at cryogenic temperature and affected by high hydraulic pressure and mechanical loads.</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>Knowledge / experience in high voltage insulation using glass fiber reinforced composite material for cryogenic application and high voltage test of insulation is a plus;</p> <p>Project Management experience is required;</p> <p>Ability to both work in a team and coordinate activities;</p> <p>Ability to communicate clearly and write technical reports and specifications in English.</p>
Languages	English (Fluent)
Others	Good command of the Microsoft Office package.

# IO1612 Neutral Beam Source Mechanical Engineer - TED-043

## General information

Job category	Standard
Status	Published
Department	TED / Tokamak Engineering Department
Division	TED / Heating & Current Drive Division
Section	TED / HCD / Neutral Beam Section

## Job description

Main job	Engineering - Mechanics
Title of the position	Neutral Beam Source Mechanical Engineer - TED-043
Job family	Engineer - 2
Grade	P3
Direct employment	Not required
Purpose	<p>To complete the design and manufacturing of the Neutral Beam (NB) Test facility and Heating NB source.</p> <p>To ensure the integration of the NB source into the Megavolt ITER Injector &amp; Concept Advancement (MITICA) and ITER injectors.</p> <p>Completes the design finalization and the manufacturing of the MITICA &amp; Heating Neutral Beam (HNB) and assures the integration of these technically complex components into the MITICA and ITER injectors;</p> <p>Provides the technical inputs to the potential suppliers during the design dialogue of the MITICA Beam source;</p> <p>Is responsible as the main point of contact with the Domestic Agency (DA) during the procurement period of the MITICA Beam source and the HNB source;</p> <p>Provides a rapid response to supplier requests questions during the manufacturing period of the MITICA Beam source and thereafter in the HNB source;</p> <p>Manages the deviations and non-conformities raised during the manufacture phase ;</p> <p>Ensures adequate quality control in the manufacturing and integration into the MITICA test facility through frequent missions to the suppliers and host site;</p> <p>Ensures the manufacturing changes are respected in the technical specifications and drawing for the HNB source;</p> <p>Assures the integration of the components into the ITER HNB's and the compatibility with the interfaces (remote handling, vacuum, cooling water);</p> <p>Liaises with the Diagnostic Neutral Beam (DNB) Technical Responsible Officer (TRO) to assure transfer of information on the design solutions to the DNB;</p> <p>Manages the design and manufacturing documentation and approval;</p> <p>Keeps the relevant interface control documents and other associated documentation up to date;</p> <p>Reports variances on all technical, cost and schedule aspects immediately to the Division Head and supports effective risk management;</p> <p>Assists in the preparations for the installation of the NB systems on ITER;</p> <p>Supports effective risk identification and management;</p> <p>Supports the change control process for his/her scope of work and communicates changes to the Section Leader/Division Head. Guarantees integration with other technical interfaces;</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Breakdown Schedule or Strategic Management Plan;</p> <p>May be requested to be part of any of the project team dealing with the above activities 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>Reports directly to the NB Section Leader.</p> <p>Interfaces with other ITER Technical Departments, as required;</p> <p>Ensures integration with other technical interfaces;</p> <p>In response to requests from the Director-General and/or Tokamak Engineering Department</p>
Main duties / Responsibilities	

	Head, or proactively, informs the DG/ Tokamak 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.
Measures of effectiveness	<p>Work packages completed to agreed deadlines;</p> <p>Monitors efficiently the design finalisation and the manufacturing of the MITICA &amp; HNB and the integration of the components into the MITICA and ITER injectors;</p> <p>Contributes effectively to the NB specification of allocated procurement packages;</p> <p>Manages procurement of systems / components through procurement packages within the defined cost and schedule;</p> <p>Controls accurately the technical aspects of the and HNB source installation on ITER.</p>
	Project Construction Phase

## Applicant criteria

Level of study	Master or equivalent degree
Diploma	Mechanical Engineering
Level of experience	At least 8 years
Technical experience/knowledge	<p>At least 8 years' experience in mechanical engineering (including 3 years in project engineering);</p> <p>At least 5 years' experience working with large complex system, thus enabling the candidate to have a good understanding of the associated installation and integration issues;</p> <p>Mechanical engineering and manufacturing experience of complex components in a vacuum environment and high heat flux materials;</p> <p>Knowledge of neutral beam technology would be advantageous.</p> <p>5 years' experience in technical/mechanical design; experience in planning functions in scientific / technical projects.</p> <p>Experience in application of recognized engineering codes and standards, experience in manufacturing;</p> <p>Experience with the technical follow-up of CAD activity:</p> <p>Familiarity with CATIA and CAD oversight, incl. manufacturing drawings</p> <p>Familiarity with P&amp;ID diagrams</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	Proven presentation writing skills.
Languages	English (Fluent)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)

# IO1617 AVEVA Applications Administrator - CIO-041

## General information

Job category	Standard
Status	Published
Department	CIO/ Central Integration Office
Division	CIO / Design Office Division
Section	CIO / DO / Mechanical Design & CAD Infrastructure Section

## Job description

Main job	Computer Science - Computer Aided Design
Title of the position	AVEVA Applications Administrator - CIO-041
Job family	Functional Officer - 1
Grade	P2
Direct employment	Not required
Purpose	<p>To manage the administration, deployment, software certification &amp; enhancement of the Computer Aided Design (CAD) infrastructure for plant design using the AVEVA software.</p> <p>To contribute to the interface between AVEVA &amp; existing ITER CAD software &amp; Project Lifecycle Management (PLM) with relevant administrators and follow-up development and implementation.</p> <p>To adjust to a large range of missions in relation with other CAD / Engineering software to support the Design Office Division and the Central Integration Office (CIO).</p>
Main duties / Responsibilities	<p>Develops and implements AVEVA DIAGRAMS &amp; 3D, and multi-disciplinary design applications;</p> <p>Interfaces with specialists for hardware infrastructure setup, software &amp; database aspects;</p> <p>Implements the supplier/environment packages for AVEVA including catalogues;</p> <p>Sets-up the software for the number of users and sites, providing user access rights &amp; support;</p> <p>Develop &amp; maintains documents for software administration, certification &amp; usage based on ITER needs &amp; best industrial practices;</p> <p>Ensures that AVEVA data quality and the Catia context integration requirements are applied;</p> <p>Specifies supporting functionalities (bridge with PLM, automation ) and follows implementation;</p> <p>Assists System Engineers in generating AVEVA reports and sharing light model files;</p> <p>Sets-up piping specifications &amp; isometrics generation customization as per requirements;</p> <p>Guarantees achievement of projects with a high level of autonomy.</p> <p>Proposes improvements on efficiency &amp; quality of the present CAD Infrastructure;</p> <p>Is able to adjust to a large range of missions to support the Design Office and the Central Integration Office, including similar missions as previously with other CAD / Engineering software.</p> <p>Performs other duties linked to the above purpose upon management request, as necessary; in particular supports the Section Leader and actively contributes to the identification of miss-functioning and improvement of the CAD infrastructure;</p> <p>May be requested to be part of any of the project team dealing with the above activities 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>Reports to the Mechanical Design &amp; CAD Infrastructure Section Leader;</p> <p>Support the Design Office Responsible Officer for Plant Infrastructure;</p> <p>Acts as an interface for AVEVA between the Design Office, the associated horizontal interfaces and the Plant System Responsible Officers (ITER Organization &amp; Domestic Agencies / Suppliers);</p> <p>In response to requests from the Director-General and/or Central Integration Office (CIO) Head, or proactively, informs the DG/CIO 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>Manages efficient and high quality usage of the AVEVA Applications at IO and DA/Suppliers;</p>

Measures of effectiveness	<p>Manages the proper usage of the CAD plant infrastructure by IO &amp; non-IO Users;</p> <p>Supports the implementation of the relevant CIO horizontal processes;</p> <p>Organizes the required quality control and needed corrective actions;</p> <p>Manages the proper usage of the resources with regards to the schedule &amp; cost containment;</p> <p>Promotes the Design Office environment to the ITER design Contributors.</p>
	Project Construction Phase

Applicant criteria

Level of study	At least Master's Degree or equivalent
Diploma	Process and/or Computer-Aided Design or other
Level of experience	At least 5 years
Technical experience/knowledge	<p>Key knowledge: AVEVA 3D administration, multi-software &amp; multi-location CAD architecture in large and complex projects;</p> <p>At least 5 years' experience. in a Plant Design / CAD Methodology Office in a multi-disciplinary project and preferably performed in a remote design collaboration environment;</p> <p>Experience in engineering activities preferably in fusion and/or nuclear energy involving circuits &amp; buildings, supports &amp; penetrations, and complex interfaces would be an advantage;</p> <p>Basic Project Management experience is required;</p> <p>Demonstrated ability to produce high quality results which have stood the test of being manufactured, validated, installed and commissioned successfully.</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
Languages	English (Fluent)
Others	<p>At least 5 years' experience in design work involving an advanced plant CAD system, including 2 years with AVEVA software usage &amp; administration;</p> <p>Knowledge about interfaces between CAD authoring tools, PLM &amp; IT;</p> <p>Experience with ENOVIA V5, CATIA 5 Equipment &amp; Systems, See-System-Design or with other integrated database systems would be an advantage;</p>

# IO1618 Plant Systems Const. & Integration Eng. - CIO-044

## General information

Job category	Standard
Status	Published
Department	CIO/ Central Integration Office
Division	CIO / Design Integration Section/Division

## Job description

Main job	Engineering - Mechanics
Title of the position	Plant Systems Const. & Integration Eng. - CIO-044
Job family	Engineer - 1
Grade	P2
Direct employment	Not required
Purpose	<p>To oversee the design integration of the plant systems in the Tokamak Complex building with all interfaces;</p> <p>To support the Tokamak and Diagnostic buildings Area Manager for all tasks related to plant integration and construction in the Tokamak and Diagnostic Building;</p> <p>To coordinate with the Area Manager the construction phase of the nuclear buildings and the plant systems installation.</p> <p>To ensure the coherency in the configuration of the plant layout considering all requirements.</p>
Main duties / Responsibilities	<p>Maintains the plant configuration baseline of all systems in Tokamak- &amp; Diagnostic buildings prior to construction and during the construction of the buildings and the plant systems</p> <p>Prepares and follow-up the Design Integration Review meetings through associated Actions;</p> <p>Implements safety requirements in close collaboration with the Safety Department;</p> <p>Interfaces with all plant systems Responsible Officers (ROs) for resolving of Project Change Requests, System Deviation Request, Field Change Requests and Non-Conformity Requests;</p> <p>Defines the installation sequence of the plant systems with the Engineering Departments on the basis of Construction Process Description documents;</p> <p>Contributes to the control of the configuration during the construction phase of the building structure and plant systems installation as a support to the Area Manager;</p> <p>Monitors and controls the construction of plant systems in accordance to interface definition and functional tolerance requirements;</p> <p>Ensures consistency between Process Flow Diagram/ Process and Instrumentation diagrams and system layout reference configuration models;</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Schedule or Strategic Management Plan;</p> <p>May be requested to be part of any of the project team dealing with the above activities and performs 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>Under the coordination of the Area Manager for Tokamak &amp; Diagnostic building, reports to the Design Integration Section / Division Head;</p> <p>Interfaces closely with the Construction Department, Plant Engineering and Tokamak Departments and Building Project Team, to ensure interface and requirements consistency;</p> <p>Interacts with the technical responsible persons for the systems within IO and Domestic Agencies for all matters relating to plant integration;</p> <p>In response to requests from the Director-General and/or Integration Office (CIO) Head, or proactively, informs the DG/CIO 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>Develops/reviews of Construction Process Description documents compliant with Assembly processes and requirements;</p> <p>Reviews and completes Construction work packages in an exhaustive manner with respect to interface definition;</p>

Measures of effectiveness	<p>Enhances in an exhaustive manner the definition of the plant configuration in Tokamak- &amp; Diagnostic building;</p> <p>Manages and resolves interface issues following Project Change Requests, System Deviation Requests, Non-Conformity Reports and Field Change Requests during the whole construction and commissioning phase of the Tokamak Complex buildings.</p> <p>Project Construction Phase</p>
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Applicant criteria

Level of study	Master or equivalent degree
Diploma	Mechanical engineering or other related discipline
Level of experience	At least 5 years
Technical experience/knowledge	<p>At least 5 years' experience covering the majority of following topics:</p> <ul style="list-style-type: none"> <li>o Experience in design integration of plant systems;</li> <li>o Knowledge of plant systems layouts in nuclear buildings;</li> <li>o Knowledge about Configuration Control in nuclear projects;</li> <li>o Knowledge in the management of concrete building interfaces with plant systems;</li> <li>o Experience in construction of plant systems</li> </ul>
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 capability to interact with experts from different disciplines; Organizational skills and autonomy for his/her of responsibility;
Languages	English (Fluent)
Others	<ul style="list-style-type: none"> <li>- Good knowledge of CATIA V5 and the ENOVIA database is an advantage;</li> <li>- Excellent knowledge of the Microsoft Office package.</li> </ul>

# IO1615 Structural&Layout Configuration Engineer - PED-024

## General information

Job category	Standard
Status	Published
Department	PED / Plant Engineering Department
Division	PED / Cooling Systems Engineering Division
Section	PED / CSED / Cooling Water System Section

## Job description

Main job	Engineering - Mechanics
Title of the position	Structural&Layout Configuration Engineer - PED-024
Job family	Engineer - EC
Grade	P1
Direct employment	Not required
Purpose	<p>To assess the Cooling Water System (CWS) final layout inside the buildings by using the AVEVA PDMS 3D models;</p> <p>To perform the Final Design and Analysis of the structural supports for the Cooling Water System (CWS) piping and equipment;</p> <p>To prepare the detailed analysis and drawings using AVEVA PDMS 3D models of piping supports to transfer the structural loads to the buildings;</p> <p>To provide solutions for the necessary spooling of concerned piping and preassembly before the final installation inside the buildings;</p> <p>To contribute to the procurement and the successful construction of the CWS piping system in the framework of the centralized piping procurement and participate to the preassembly and pretesting of the CWS piping system.</p>
Main duties / Responsibilities	<p>Produces static and dynamic stress analysis calculations and reports of the Tokamak Cooling Water System (TCWS) piping and equipment supports and structures;</p> <p>Maintains a fluent dialog with 3D designers and support designers to agree on the optimal required support configuration;</p> <p>Produces loads reports in coordination with other sections and clients (Buildings, etc);</p> <p>Reviews the structural analysis produced by industry or Domestic Agencies for the assigned systems;</p> <p>Participates to the design and conformity assessment of the TCWS equipment according to the French regulations (ESP/ESPN) and following required design codes and standards as per Licensing Design Basis;</p> <p>Contributes to the systems design, fabrication and modularization of TCWS equipment according to the prescriptions of the French Nuclear Regulator - Autorité de Sûreté Nucléaire (ASN) and also following the indications of the concerned Agreed Notified Body (ANB);</p> <p>Participates to the manufacturing of TCWS piping and equipment;</p> <p>Supports the Cooling Water System section for the design, procurement, assembly and/or installation and operation of the TCWS equipment in close collaboration with Domestic Agencies and other ITER IO Departments;</p> <p>Assures fruitful and continuous integration in Cooling Water System commissioning issuing and supporting issues of commissioning technical specifications and procedures;</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>May be requested to be part of any of the project team dealing with the above activities 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>Reports to the Cooling Water Section Leader;</p> <p>Acts as an interface with other internal and external resources for the design of the Cooling Water System components;</p> <p>In response to requests from the Director-General and/or Plant Engineering Department (PED)</p>



Measures of effectiveness	Head, or proactively, informs the DG/ PED Head of any important and urgent issues that cannot be handled by the concerned line management and may jeopardize the achievement of the Project's objectives.
	<ul style="list-style-type: none"> <li>Performs the stress analysis reports of the TCWS equipment supporting structure in a timely manner;</li> <li>Produces reports on time and with a high quality standard;</li> <li>Supports efficiently design and manufacturing activities;</li> <li>Assures satisfaction of safety and functional requirements flow down.</li> </ul>
	Project Construction Phase

## Applicant criteria

Technical experience/knowledge	Level of study	Master or equivalent degree
	Diploma	Nuclear or Mechanical Engineering;
	Level of experience	At least 2 years
		<ul style="list-style-type: none"> <li>Good knowledge of large piping system support design;</li> <li>Excellent knowledge of structural design codes AISC, Eurocode, etc. &amp; knowledge of ASME III related chapters is also be appreciated,</li> <li>At least 2 years' experience in nuclear or mechanical engineering,</li> <li>Experience in the seismic design of steel structures for Nuclear Facilities,</li> <li>Basic experience in the System Engineering of complex Nuclear projects,</li> <li>Basic experience in the Cold Sinks Engineering of complex systems and projects,</li> <li>Knowledge of the EU PED or French ESP/ESPN regulations and practical application will be considered advantageous;</li> <li>Basic Project Management experience is appreciated.</li> </ul>
	Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
	Languages	English (Fluent)
	Others	<ul style="list-style-type: none"> <li>Excellent Knowledge of Caesar II structural analysis software and GT Strudl, Staad Pro or similar software.</li> <li>Good knowledge of FEM analysis software (ANSYS).</li> <li>Good knowledge of 2D-3D CAD software (AVEVA PDMS and Catia).</li> <li>Excellent knowledge of MS Office standard (Word, Excel, PowerPoint, Outlook) is required.</li> </ul>

# IO1619 PLM Administrator - CIO-040

## General information

Job category	Standard
Status	Published
Department	CIO/ Central Integration Office
Division	CIO / Project Information System Section/Division

## Job description

Main job	Computer Science - System Administration
Title of the position	PLM Administrator - CIO-040
Job family	Functional Assistant - 3
Grade	G5
Direct employment	Not required
Purpose	<p>To manage a Product Lifecycle Management (PLM) system and engage with cross-functional teams to design solutions to application and process issues. To document current processes, provide analysis, and recommend process and/or tool improvements. To analyze problems of diverse scope to identify solutions, troubleshooting system and process issues, updating system configuration to respond to customer requests, implementing business processes and tools to support day-to-day operations.</p> <p>Provides administrative support for a PLM system; Performs PLM system installations, upgrades, and configuration support; Manages administrative classes such as users, groups, access security, system rules and conditions, projects, etc; Troubleshoots software issues and acts as liaison with vendors to expedite implementation of fixes and updates; Resolves user, system and data issues; Strives to maintain state-of-the-art knowledge of engineering application software,.testing new software releases in the current use environment to insure usability and lack of downtime; Interfaces efficiently with cross functional teams to drive process improvements including requirements documentation, modelling, workflow design, testing, implementation and socialization; Documents PLM business processes used for the management of documents and administrative objects; Works with the engineering staff to plan and develops any specialized software that would be unique to ITER needs and would otherwise not be readily available; Trains engineering staff to use software and systems efficiently and effectively; Assists in the selection, acquisition, installation and maintenance of engineering application software, ensuring systems are interacting and not adversely affecting one another and work with existing solutions; Collects and reports system and process metrics to support business goals, data integrity, and system efficiency; Participates in the ongoing assessment and optimization of PLM systems, processes, tools and product data; Gives priority on systems that keep the engineers working, ensuring systems and their data feeds up and running; Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan; May be requested to be part of any of the project team and perform other duties upon management request; Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p>
Main duties / Responsibilities	<p>Reports to Project Information System Section/Division Head; Acts as an interface between IT and other groups at ITER ; In response to requests from the Director-General and/or Central Integration Office (CIO) Head, or proactively, informs the DG/ CIO Head of any important and urgent issues that cannot be</p>

Measures of effectiveness	handled by the concerned line management and may jeopardize the achievement of the Project's objectives.
	Administers effectively the PLM system; Evolves the PLM system and improves operation.
	Project Construction Phase

Applicant criteria

Level of study	Bachelor or equivalent degree
Diploma	Computing or other relevant discipline;
Level of experience	At least 7 years
Technical experience/knowledge	Knowledge in multiple enterprise applications and tools to support PLM business initiatives;
	At least 7 years' experience in administering systems in complex engineering/construction environment;
	At least 3 years' experience working with PLM systems (Enovia preferred);
	Strong experience in engineering file relationships between parts, drawings, solid models, bills-of-material and the database structures;
	Strong experience in administrating complex data management systems (SAP, Enovia, SmartPlant, ...);
	Microsoft Server/Oracle database experience is an advantage;
	Experience in Windows Server or Linux administration including scripting (powershell, vbscript, python, perl, ...)
Social skills	Familiarity with CAD/CAM and Modelling;
	Experience in Service Delivery;
	Project Management experience is required; a certification in Prince II would be an advantage.
	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
Languages	English (Fluent)