

# IO2144 Integrated Systems Engineer CIO-197

## General information

Job category	Standard
Status	Published
Department	CIO/ Central Integration Office
Division	CIO / Design & Construction Integration Division
Section	CIO / DCIN / System Integration Section

## Job description

Main job	Engineering - Generalist
Title of the position	Integrated Systems Engineer CIO-197
Job family	Engineer - 1
Grade	P2
Direct employment	Not required
Purpose	<p>To configure and control the integrated systems in accordance with the project requirements (including transverse requirements such as fire protection and confinement), whilst also focusing on other requirements related to maintaining dynamic confinement as per psychometric environmental conditions within the building environment;</p> <p>To contribute to the control of the maturity of the systems by providing the deliverables needed for the implementation of the Integration Review and resolving associated relevant actions;</p> <p>To define the Heating, Ventilation &amp; Air Conditioning (HVAC) systems' state as per the machine operating scenarios;</p> <p>To assume other associated duties as related to project requirements and functional analysis.</p>
Main duties / Responsibilities	<p>Please note that an organizational restructuring is planned in accordance with the needs of the organization and the evolution of the project phases. In this context, the unit of assignment of the present position may be updated in late 2019, early 2020.</p> <p>Implements Systems Engineering and manages requirements including technical interface control and transversal functions for the HVAC systems;</p> <p>Performs dynamic simulations to verify the functional integration of the HVAC systems within the overall configuration;</p> <p>Manages baseline documents including systems requirements documents, interface documents, engineering diagrams, e.g. process flow diagrams and piping and instrumentation diagrams throughout the whole lifecycle of the system's integration;</p> <p>Prepares functional design integration reviews in order to verify the implementation of the integrated requirements and environmental constraints and subsequently advises on corrective actions when necessary;</p> <p>Controls the compliance and integration of engineering diagrams with respect to project requirements, taking care of both functional interfaces as well as transverse requirements related to design basis and investment protection policy;</p> <p>Takes part in the qualification of equipment as part of the requirements verification;</p> <p>Contributes to the commissioning preparation for requirements validation;</p> <p>Participates in configuration management tasks including the technical assessment of change control, deviation requests and non-conformities;</p> <p>May be required to work shifts and outside ITER Organization reference working hours, including nights, weekends and public holidays;</p> <p>May be requested to be part of any of the project/construction teams and to perform other duties in support of the project;</p> <p>May be required to work outside ITER Organization reference working hours, including nights, weekends and public holidays.</p>
Measures of effectiveness	<p>Contributes and maintains documents to a high standard on the ITER System's functional integration;</p> <p>Implements the Systems Engineering processes and associated reporting as per the defined quality, cost and schedule;</p> <p>Performs the functional tests of the integrated systems according to the overall project schedule;</p> <p>Ensures smooth collaboration with all stake and shareholders in the implementation of the</p>

## Applicant criteria

Level of study	Master or equivalent degree
Diploma	Mechanical Engineering or Nuclear Engineering
Level of experience	At least 5 years
Technical experience/knowledge	<p>At least 5 years' experience in the implementation of Systems Engineering approaches on complex engineering projects, preferably within an international environment;</p> <p>The required education degree may be substituted by extensive professional experience involving similar work responsibilities and/or additional training certificates in relevant domains;</p> <p>Demonstrated experience in engineering, procurement, construction and commissioning of HVAC systems in a regulated environment (nuclear, pharmaceutical, toxic chemicals etc.) and where Quality Assurance and nuclear/industrial safety quality standards are implemented;</p> <p>Significant experience in application of system-level simulation software (e.g. Flowmaster, Dymola, Ecosimpro etc. and/or a CFD code to HVAC modelling problems) is considered as an advantage;</p> <p>Knowledge of DOORS and PLM is considered as an advantage;</p> <p>Project coordination competencies are advantageous.</p> <p>Collaborate: Ability to dialogue with a wide variety of contributors and stakeholders;</p> <p>Communicate Effectively: Ability to adjust communication content and style to deliver messages to work effectively in a multi-cultural environment;</p>
General skills	<p>Drive results: Ability to persist in the face of challenges to meet deadlines with high standards;</p> <p>Manage Complexity: Ability to analyze multiple and diverse sources of information to understand problems accurately before moving to proposals/solutions;</p> <p>Instill trust: Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.</p>
Languages	English (Fluent)
Others	SAP-Id: 50002538