

# IO1664 Nuclear Engineering Coordinator - CIO-054

## General information

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

## Job description

Main job	Engineering - Nuclear Power
Title of the position	Nuclear Engineering Coordinator - CIO-054
Job family	Coordinating Engineer
Grade	P4
Direct employment	Not required
Purpose	<p>To ensure a consistent and fully integrated nuclear engineering approach throughout the ITER project, in compliance with the project and regulatory requirements.</p> <p>To develop and implement the required improvements of radiation conditions in the tokamak complex and ensure the completion of design input of systems for the control and cleanup of contamination.</p> <p>Ensures a consistent and fully integrated engineering approach to nuclear radiation and contamination throughout the ITER project which is compliant with project requirements and the defined requirements from the Environmental Protection &amp; Nuclear Safety (EPNS) Division.</p> <p>Identifies, plans and oversees the execution of all needed radiation and contamination integration activities across all ITER Project;</p> <p>Ensures that radiation data for the nuclear buildings, based on up-to-date System, Structure &amp; Component (SSCs) models and radiation sources, is maintained within the Project Baseline;</p> <p>Ensures the complete specification of the systems and derived Occupational Radiation Exposure (ORE) requirements together with the relevant interfaces derived from consideration of the effects of radiation;</p> <p>Coordinates and leads the design effort to propose solutions to solve all issues related to radiation exposure and contamination;</p> <p>Identifies and resolves conflicts between radiation requirements and radiation conditions, if any;</p> <p>Manages and conducts design analyses and validation activities related to nuclear integration including shielding and the minimization of external and internal exposure in accordance with As low as Reasonably Achievable (ALARA) principles and the project requirements;</p> <p>Integrates design and safety related nuclear analyses in the system engineering approach, and thereby optimizes the use of resources;</p> <p>Develops, propagates, and imposes nuclear requirements to all Plant Breakdown Structure (PBS);</p> <p>Defines and maintains the methodology and quality of nuclear analyses;</p> <p>Provides support to the Safety Department for the evaluation of nuclear requirements and their status in the ITER overall design;</p> <p>Develops nuclear culture within the project;</p> <p>Plans, coordinates and implements nuclear integration related activities including close collaborations within Central Team and with Domestic Agencies;</p> <p>Specifies design requirements and processes for:</p> <p>radiation shielding to reduce the radiation levels for electronics and other equipment to acceptable levels and to support the completion of the building design;</p> <p>the minimization of contamination;</p> <p>access to contaminated areas for maintenance and clean-up processes;</p> <p>for decontamination;</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 and performs other duties upon management request;</p> <p>Maintains a strong commitment to the implementation and perpetuation of the ITER Safety</p>
Main duties / Responsibilities	

Measures of effectiveness	<p>Program, values and ethics;</p> <p>May be requested to work on beryllium-containing components. In this case, he/she will be required to follow the established ITER Beryllium Management Program for working safely with beryllium. Full training and support will be provided by the ITER Organization.</p> <p>Reports to the Analysis Section / Division Head;</p> <p>Interfaces with all other ITER Departments and Divisions;</p> <p>In response to requests from the Director-General and/or Head of Central Integration Office (CIO), or proactively, informs the DG/Head of CIO 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>Radiation environment data (maps) for the nuclear buildings are provided to demonstrate compliance with requirements and to provide input for equipment design;</p> <p>Radiation maps are updated following building and equipment design and construction progresses up to the as-built configuration;</p> <p>Nuclear analyses are planned and performed on time following project schedule;</p> <p>Specification for design requirements and processes for minimization of contamination, procedures for access to contaminated areas and for decontamination are completed and approved.</p> <p>Contracts related to his/her scope of work are completed within schedule, scope and budget limit;</p> <p>Specific yearly objectives agreed with line management and defined in SAP are achieved;</p> <p>Comprehensive reports and summaries of design are provided;</p> <p>Generates and maintains trustworthy, up to date information related to the machine technical scope.</p>
	Project Construction Phase

## Applicant criteria

Level of study	Master or equivalent degree
Diploma	Nuclear Engineering
Level of experience	At least 10 years
Technical experience/knowledge	<p>At least 10 years of experience in nuclear engineering and related activities;</p> <p>At least 5 years' Project Management experience in a similar environment is required;</p> <p>Excellent knowledge of the control of contamination and decontamination processes;</p> <p>Excellent knowledge of radiation shielding design and analysis;</p> <p>Good knowledge of nuclear plant quality assurance program, and safety and regulatory requirements;</p> <p>Good knowledge of regulatory and safety issues;</p> <p>Good knowledge of specific aspects of fusion devices and the basic functions of ITER machine and its components.</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>Demonstrated ability to work in a multidisciplinary team and to interact with experts in many technical disciplines;</p> <p>Organizational skills and autonomy for his/her of responsibility;</p> <p>Flexible and proactive approach oriented on problem solving.</p>
Languages	English (Fluent)
Others	<p>Experience with Microsoft Office suite of programs;</p> <p>Project Management tools knowledge.</p>