

# IO1576 Nuclear Analyst CIO-012

## 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 Analyst CIO-012
Job family	Engineer - 1
Grade	G6
Direct employment	Not required
Purpose	<p>To perform radiation (neutron and gamma) transport analyses and activation calculations for ITER as directed by his supervisor.</p> <p>To create geometric models derived from Computer Aided Design (CAD) models and drawings, the definition of radiation sources, and the specification of tallies using the Monte-Carlo N-Particle transport (MCNP) code and other radiation transport codes.</p> <p>To present the results and be prepared to demonstrate their accuracy and write reports of the analyses.</p>
Main duties / Responsibilities	<p>Performs radiation transport calculations;</p> <p>Performs activation calculations;</p> <p>Maintains the database of neutronics models;</p> <p>Reviews and follows-up nuclear calculations performed or provided by the ITER Team or provided by the Domestic Agencies (DAs);</p> <p>Defines tasks in agreement with DAs to complete nuclear analyses;</p> <p>Follows-up &amp; monitors nuclear analysis contracts;</p> <p>Estimates the effects of the design change and/or evolution on nuclear loads on ITER components and verification that the important and basic nuclear responses are kept within the design limits, not degrading ITER machine performance;</p> <p>Supports the timely execution of the nuclear calculations and the verification of the design inputs;</p> <p>Performs these 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>
Measures of effectiveness	<p>Under the supervision of the Nuclear Shielding and Analysis Coordinator, 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 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>Provides accurate calculations according to the defined schedule;</p> <p>Performs an effective follow-up of contracts related to his/her scope of work within the defined cost &amp; schedule;</p> <p>Issues comprehensive reports and summaries of the performed and revised analyses;</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 Physics / Nuclear Engineering or other
Level of experience	At least 5 years
Technical experience/knowledge	At least 5 years of experience in nuclear calculations and related activities; Good knowledge of specific aspects of fusion devices and the basic functions of ITER machine and its components.
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 super computer, cluster machines, stand-alone work station; Proficiency with Microsoft Office suite of programs.
Languages	English (Fluent)