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## JOB DETAIL

Ref. IO1864 - 7/4/2017

## Electromagnetic &amp; Compatibility Engineer - CIO-063

<b>Main job</b>	Nuclear Power
<b>Department</b>	CIO/ Central Integration Office
<b>Division</b>	CIO / Analysis Section/Division
<b>Job Family</b>	Engineer - 2
<b>Application Deadline (MM/DD/YYYY)</b>	08/13/2017
<b>Grade</b>	P3
<b>Direct employment</b>	Not required
<b>Purpose</b>	<p>To provide expertise to the Analysis Section/Division of the CIO in matters related to Electro-Magnetic (EM) analyses and compatibility;            To ensure the equipment compatibility with the electromagnetic environment;            To monitor that procedures and standards for EM analyses are applied across the project.</p> <p>-Performs and coordinates activities related to the transversal function EM Compatibility &amp; Magnetic perturbation;            -Performs and coordinates tasks in preparation of the commissioning phase on matter related to the tokamak machine operation (evaluation of EM loads, coil current voltages, etc.), EM environment definition (magnetic field, and magnetic field variations) and EM shielding requirement in machine commissioning and operational scenarios;            -Supports Department for the qualification of equipment to the electromagnetic environment and the analysis of the required EM shielding;            -Develops instructions, guidelines and procedures for EM analyses and EM compatibility;            -Interacts with Safety Department to propagate, methodologies, procedures and requirements for EM analyses that are classified as Project Importance Activity (PIA);            -Carries out training and organizes information meeting to propagate EM analysis requirements;</p>
<b>Main duties / Responsibilities</b>	<p>-Coordinates the development of general models and tools for EM analysis and make them available to EM analysis performer to promote synergies between analysis performers and improve efficiency and quality;            -Interacts and communicates with other departments for the propagation and consistencies of EM interface loads between equipment;            -Performs EM analyses of ITER components in plasma transient events for the evaluation of electro-magnetic loads, for the definition of component design loads or to provide input boundary conditions for local detailed analyses;            -Supports Responsible Officers (RO) to prepare contracts, task agreements and technical specifications for activities related to electromagnetic analyses and electromagnetic compatibility;            -Reviews and verifies EM analyses;            -Develops interfaces according to simulations of plasma transient events (disruptions, vertical displacement events, fast discharge events, etc.) with EM analysis programs to improve analysis quality and efficiency;            -Prepares and reviews detailed analysis reports;            -Updates and keeps records of the Finite Element (FE) models developed inside the ITER Organization and by the supporting agencies;            -Performs other duties in support of the project schedule or upon management request, as necessary;            -May be requested to be part of any of the project/construction teams and to perform other duties;            -Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p> <p>-Reports to Analysis Section/ Division Head;            -Interfaces with all other ITER Departments and Divisions for matters of his/her competence;            -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>

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<b>Measures of effectiveness</b>	-Pro-actively supports the Analysis Section/Division Head in identifying analysis needs and in improvement of the efficiency of the analysis work; -Provides comprehensive and accurate reports and summaries of the performed and revised analyses; -Provides FE models developed for the analyses within the defined schedule; -Provides work plan and schedule of analyses coordinated by Analysis Section/Division; -Maintains effective communication with all organizations interfacing with ITER; -Contributes to cost saving and improvement of work efficiency; -Generates and maintains trustworthy, up to date information related to the machine's technical scope.  Project Construction Phase SAP ID: 50000178
<b>Level of study</b>	At least Master's Degree or equivalent
<b>Diploma</b>	Mechanical or Nuclear/Fusion Engineering or other
<b>Level of experience</b>	At least 8 years
<b>Technical experience/knowledge</b>	-At least 8 years' experience in the use of Finite Element (FE) programs or electromagnetic analysis tools for tasks in EM domains relevant for nuclear fusion devices; -Good experience with super computers, cluster machines, and stand-alone work stations; -Experience in the qualification of equipment to the electromagnetic environment and the analysis of the required EM shielding; -Experience in electromagnetic compatibility design and qualification at DC and low frequency noise would be an advantage; -Basic knowledge of plasma physics would be an advantage; -Extensive experience in similar jobs (involving similar work responsibilities) and/or additional training certificates in relevant domains may be considered a reasonable substitute for the required educational degree; -Good knowledge of the basic functions of a tokamak machine and of the impact of EM transients (plasma disruption, magnet fast discharges) on its components;
<b>Social skills</b>	Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit Ability to communicate effectively
<b>Specific skills</b>	MS Office standard (Word, Excel, PowerPoint, Outlook)
<b>General skills</b>	-Good understanding of the basic principles of electromagnetism; -Good knowledge of Electromagnetic analysis tools.
<b>Others</b>	-Experience with Microsoft Office suite of programs; -Good knowledge of the EM analysis tools and experience in finite element software (Ansys, Maxwell 2D-3D) would be an advantage; -Knowledge of the computer usage (super computer, cluster machines, stand-alone work station).
<b>Languages</b>	English (Fluent)

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