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JOB DETAIL

Ref. IO1122 - 6/1/2011

Structural Analysis Responsible Officer CIEPRO036

Main job	Generalist
Department	DIP/Directorate for Central Integration & Engineering
Division	CIE / Technical Integration Division
Section	CIE / TI / Systems Analysis and Standards Section
Job Family	Project engineering
Application Deadline	03/Jul/2011
Grade	P3
Direct employment	Not required
Purpose	To perform structural analysis and to provide support to ITER Technical Responsible officers in the preparation of system load specifications and structural integrity reports. To support the System Analysis and Standards Section (SYSA) of the Technical Integration Division (TID), in the Central Integration & Engineering Office (CIEO) in matters related to the structural analyses and load specifications for ITER mechanical components following requirements and priorities defined by the CIE Office management and in support of requests from other Divisions.
Main duties / Responsibilities	<p>1) Coordinates and manages the system load specifications:</p> <p>a) Interfaces with ITER Fusion Science and Technology Department to prepare:</p> <ul style="list-style-type: none"> •plasma transient simulation (DINA or other selected code); •specifications for asymmetric plasma behaviour in plasma transients. <p>b) Supports systems responsible officers to create systems and components load specifications:</p> <ul style="list-style-type: none"> •Prepares general guidelines on system load specifications; •Coordinates the preparation of system load specifications for ITER systems mechanical components; •Monitors the system load specifications to ensure they are properly applied in verification analyses. <p>2)Coordinates and executes structural analyses</p> <p>a)Develops Quality Assurance (QA) procedures for analyses;</p> <p>b)Verifies that QA procedures are applied throughout the project;</p> <p>c)Interacts with other Divisions for the preparation of the system and components stress reports (verifies that reports are consistent with the analyses' QA requirements, general and system load specifications, and selected C&S rules);</p> <p>d)Reviews and verifies analyses performed by other Divisions and by DA's;</p> <p>e)Develops programs, macros and software routines for common use across the project;</p> <p>f)Contributes to the update and record of the finite element (FE) model developed inside the ITER Organization and provided by the DA's;</p> <p>g)Coordinates analyses activities oriented to design improvements and cost reductions following requirements and priorities defined by the CIE Office management;</p> <p>h)Coordinates the wide system structural analyses.</p>
Measures of effectiveness	<ul style="list-style-type: none"> •Successfully supports the SYSA Section in achieving the defined objectives and milestones; •Provides comprehensive reports and summaries of the performed and revised analyses; •Provides a work plan and schedule of analyses coordinated by SYSA; •Successfully generates and maintains trustworthy, up to date information related to the machine technical scope.
Level of study	Bachelor or equivalent degree
Diploma	Engineering

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Level of experience	At least 8 years
Technical experience	<ul style="list-style-type: none">-At least 8 years of experience in the analyses of components of large (scientific or industrial) projects (preference is given to experience on large Tokamak machines) and in the definition of load specifications;-Proficiency and direct experience in using finite element programs;-Good understanding of the ITER specific sources of loads (electromagnetic, seismic, nuclear) and good capacity to identify the design loads associated with the physics of the ITER operational requirements and to translate them into input for ITER engineering activities;-Knowledge of the ITER design, configuration, procedures;-Good knowledge of structural design codes;-Capacity to plan, coordinate and manage analysis activities;-Knowledge of engineering aspects of the design and analysis of the main Tokamak systems;
Project experience	2 to 4 years
Social skills	<ul style="list-style-type: none">Ability to work effectively in a multi-cultural environmentAbility to work in a team and to promote team spiritAbility to effectively multi-task
Languages	<ul style="list-style-type: none">English (Working)French (Basic)

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