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JOB DETAIL

Ref. IO1802 - 12/20/2016

Structural Analysis Officer - CIO-069

Main job	Generalist
Department	CIO/ Central Integration Office
Division	CIO / Analysis Section/Division
Job Family	Engineer - 2
Application Deadline (MM/DD/YYYY)	01/31/2017
Grade	P3
Direct employment	Not required
Purpose	<p>-To support Analysis Section/Division (AS) in the Central Integration Office (CIO) on matters related to the structural analyses and load specifications for ITER mechanical components following requirements and priorities defined by CIO management and in support of requests from other Divisions;</p> <p>-To be the responsible officer for system load specifications.</p> <p>1) Coordinates and manages the system load specifications and interface loads: -Interfaces with ITER Fusion Science and Technology Department to prepare: _Plasma transient simulation (DINA or other selected code); _Specifications for symmetric and asymmetric plasma behaviour in plasma transients.</p>
Main duties / Responsibilities	<p>-Supports systems responsible officers to create systems and components load specifications: _Update, as required, instructions on system load specifications; _Coordinates the preparation of system load specifications for ITER systems and sub-systems; _Monitors the progress in the generation and approval of the system load specifications; _Verify that system load specifications data are properly implemented and respected in the calculation notes and analysis reports.</p> <p>-Supports the definition of Interface loads between equipment and on equipment anchoring points.</p> <p>2) Coordinates and executes structural analyses: -Support the development of Quality Assurance (QA) procedures for analyses; -Verifies that QA procedures and requirements (especially those for analysis and load definition) are applied throughout the project; -Interacts with other Divisions for the preparation of the system and components calculation notes or Structural Integrity Reports (verifies that reports are consistent with the analyses' QA requirements, general and system load specifications, and selected C&S rules); -Reviews and verifies analyses performed by other Divisions and by Domestic Agencies (DAs); -Develops programs, macros and software routines for common use across the project; -Contributes to the update and record of the finite element (FE) model developed inside the ITER Organization and provided by the DAs; -Coordinates analyses activities oriented to design improvements and cost reductions following requirements and priorities defined by the CIO Office management;</p> <p>3) Management of contracts and other duties: -Prepares and reviews technical specifications for IO contracts; -Manages contractors (prepares work plans, define priorities, checks timely execution of work, etc.); -Interacts with PBS ROs to timely get the input data required to perform the analysis;</p>
Measures of	-Performs other duties in support of the project schedule;

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effectiveness	<p>-May be requested to be part of any of the project/construction team 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> <p>Special notice: May be requested to work on beryllium-containing components. In this case, you will be required to follow the established ITER Beryllium Management Program for working safely with beryllium. 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/Offices and Divisions;</p> <p>-In response to requests from the Director-General and/or Head of the 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>-Successfully supports Head of the Analysis Section/Division in achieving the defined objectives and milestones;</p> <p>-Provides comprehensive reports and summaries of the performed and revised analyses;</p> <p>-Provides a work plan and schedule of analyses coordinated by the Section/Division ;</p> <p>-Successfully generates and maintains trustworthy, up to date information related to the machine technical scope.</p> <p>Project Construction Phase SAP Id: 50000118</p>
Level of study	Master or equivalent degree
Diploma	Engineering field or other relevant discipline
Level of experience	At least 8 years
Technical experience/knowledge	<p>-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.</p> <p>-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;</p> <p>-Experience in interacting with Notified Bodies and demonstration of compliance to requirements from European Directives for matters related to load specification and analysis;</p> <p>-Good knowledge of the Codes and Standards used for ITER systems;</p> <p>-Excellent knowledge and direct experience in using finite element programs;</p> <p>-Good understanding of the ITER specific sources of loads (electromagnetic, seismic, nuclear, accidental and incidental conditions);</p>
Social skills	Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
General skills	<p>-Good capability to identify the design loads associated with the physics of the ITER operational requirements and to translate them into input for ITER engineering activities;</p> <p>-Knowledge of engineering aspects of the design and analysis of the main Tokamak systems;</p> <p>-Basic Project Management experience is required.</p> <p>-Capacity to plan, coordinate and manage analysis activities.</p> <p>-Openness to collaborate in a multi-disciplinary and multi-cultural environment;</p> <p>-Capability to working in a team, promote team work and interface with other groups and Divisions.</p>
Others	<p>-Good skill in computer usage (super computer, cluster machines, stand-alone work station);</p> <p>-Experience in the use of finite element software (priority given to the software used in IO);</p> <p>-Experience working with Microsoft Office suite of programs.</p>
Languages	English (Fluent)

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