

IO1206 Structural Analyst CIE - 208

General information

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| Job category | Standard |
| Status | Confirmed |
| Department | DIP/Directorate for Central Integration & Engineering |
| Division | CIE / Technical Integration Division |
| Section | CIE / TI / Systems Analysis and Standards Section |

Job description

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| Main job | Engineering - Facilities engineering |
| Title of the position | Structural Analyst CIE - 208 |
| Job family | Experienced Technician - 1 |
| Grade | G4 |
| Direct employment | Required |
| Purpose | To support the System Analysis & Standard Section (SYSA) of the Technical Integration (TI) Division of Central Integration and Engineering (CIE) Directorate in the preparation of Finite Element (FE) models, development of software or interface programs, and in performing structural analyses of ITER components following requirements and priorities defined by the CIE management. |
| Main duties / Responsibilities | <p>Prepares FE models of ITER components;</p> <p>Performs mechanical and thermal structural analyses for the verification of the integrity of the ITER components following requirements and priorities defined by the CIE management and in support of requests from other divisions;</p> <p>Verifies analysis performed by members of ITER Organization or provided by the Domestic Agencies (DAs);</p> <p>Develops programs, macros and software routines to interface programs for common use across the project to improve analysis accuracy and efficiency;</p> <p>Develops and improves the interface of FE programs with Computer Aided Design (CAD) system;</p> <p>Prepares detailed and summary analysis reports;</p> <p>Contributes to the update and record of the FE model developed inside the IO and by the DA's;</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>Performs other duties linked to the above purpose upon management request, as necessary;</p> <p>Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p> <p>Reports to the SYSA Section Leader.</p> <p>Interfaces with all other ITER departments and divisions.</p> <p>Maintains communications with other organizations within the ITER collaboration.</p> <p>In response to requests from the Director-General and/or Director for Central Integration & Engineering Directorate, or proactively, informs the DG/ Director for Central Integration & Engineering Directorate 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> |
| Measures of effectiveness | <p>Supports the SYSA Section in achieving the defined objectives and milestones.</p> <p>Provides comprehensive reports and summaries of the performed and revised analyses on time with the required quality.</p> <p>Provides FE models developed for the analyses.</p> <p>Provides work plan and schedule of analyses coordinated by SYSA.</p> <p>Maintains effective communications with all organizations interfacing with ITER.</p> <p>Generates and maintains trustworthy, up to date information/documentation related to the machine technical scope.</p> |
| | SAP ID: 50000089 |
| | Project Construction Phase |

Applicant criteria

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| Level of study | Bachelor or Master/Engineer Degree |
| Diploma | Engineering |
| Level of experience | At least 5 years |
| Technical experience | <p>Experience in the use of FE programs in the fields of linear and nonlinear thermal, mechanical static and dynamic analyses.</p> <p>Preference will be given to experience in the use of ANSYS and ANSYS workbench.</p> <p>Experience in the design of fusion devices components will be considered as an advantage;</p> <p>Knowledge of engineering aspects of the design, analysis of components and criteria (like ASME, European Norms, RCC-MR, etc.) for the structural verification following nuclear and non-nuclear practice;</p> <p>Capability of working in a team and interfacing with other groups and divisions;</p> <p>Capacity to plan and coordinate analyses, define and maintain a work schedule;</p> <p>Openness to collaboration in a multi-disciplinary and multi-cultural environment.</p> |
| Social skills | Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit, Collaborative, Good planning and organisational skills |
| Languages | English (Working) |