

Senior System Engineering Resp Officer CIE-205

Main job	Generalist
Department	DIP/Directorate for Central Integration & Engineering
Job Family	Project engineering
Application Deadline	30/Nov/2011
Grade	P4
Direct employment	Not required
Purpose	<p>For the success of ITER design and construction, 1) to implement technical integration, considering nuclear safety and environment, assembly and operation; 2) to initiate and implement necessary system engineering to successfully manage and execute these objectives; 3) to create the required infrastructure for effective configuration control and requirement management; 4) to coordinate and integrate the machine layout; 5) to enforce and maintain ensure the Quality Assurance program and safety requirements are upheld; 6) to effectively interface with the Domestic Agencies in matters related to technical integration and engineering.</p>

The Senior System Engineering Responsible Officer plans and develops the strategy of engineering considering cost and schedule, and responding to the request from Central Integration & Engineering (CIE) Directorate Director (CIE) Directorate Director; including design integration, configuration control, systems engineering, Computer-Aided Design & Drawings, system analysis, application of codes & standards, safety design and assessment, on-site assembly and installation, remote handling, machine operations, RAMI (Reliability, Availability, Maintainability & Inspectability) and integral logistics.

Main duties / Responsibilities	<p>Plans and develops the strategy to satisfy the overall requirements from project specifications, engineering and safety requirements including consistency among technologies, i.e. fabricability of components, ease of initial assembly and remote maintenance, cost containment and minimization of engineering schedule;</p>
---------------------------------------	---

Coordinates CIE's activities such as:

1. Ensures all requirements are consistent during the flowing down of the overall project specifications to components;
2. Constantly maintains and updates the Project Requirements until

operation;

3. Oversees design reviews and concludes the design readiness by ensuring that the design of each component meets the requirements and that the interfaces are taken into account at each level of the project, including the manufacturing phase;

4. Ensures that manufacturing, acceptance, and assembly are compliant with procedures defined;

5. Ensures that technical documents are provided with a sufficiently high level of quality to support the decision;

6. Develops and maintains systems for the configuration control of the ITER project technical scope and cost;

7. Ensures the interface with Domestic Agencies with respect to the technical integration and engineering, safety implications, and assembly and operation;

Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.

Measures of effectiveness

- Successfully plans and develops the integration and engineering framework strategy, considering the cost and schedule, and coordinates CIE's activities to realize implement the requests from the CIE Directorate Director as described above;
- Successfully supports the CIE Directorate Director;
- Successfully maintains strong cooperation with responsible officers;
- Successfully establishes the framework of support from industries.

Level of study

Master or higher degree

Diploma

Engineering

Level of experience

At least 15 years

Technical experience

- At least 15 years' relevant experience managing a technical team on a complex development project on fusion research;
- Experience in the technical development and integration, system engineering, assembly and operation of a large experimental device or relevant facility;
- At least 10 years' relevant experience working in industry for manufacturing and assembly departments;
- 10 to 15 years' project management experience;
- Knowledge of design aspects of tokamak systems and ITER design & configuration;
- Experience working on one of the world's leading institutes and industries for fusion development would be considered an advantage;

- Knowledge of fabrication and assembly;
- Detailed knowledge of Tokamak systems would be considered an advantage.

**Project
experience**

At least 15 years

Social skills

Ability to work effectively in a multi-cultural environment
Ability to work in a team and to promote team spirit

General skills

• Computer and IT skills consistent with managing a relevant complex developmental project.

Free criteria

• Interfaces with all other Departments within the ITER Organization, as required.

Languages

English (Working)