

## Nuclear Safety Control Engineer

**CHD-077**

<b>Reports to Line Manager:</b>	Central Interlock & Safety Section Leader, Department for CODAC & IT, Heating & CD, Diagnostics	<b>Job Code:</b>	CHD-077
<b>Direct Employment:</b>	Required	<b>Grade:</b>	P3

### Purpose

ITER will be equipped with safety control systems distributed throughout 90-120 Plant Systems. These safety control systems are organised in two layers: a local layer implemented by each Plant System and a centralised layer for those combinations of Plant System conditions that require a coordinated action, even though each Plant System may be within its own safe limits. The safety control systems cover both nuclear and conventional risks.

The candidate will contribute to all the hardware and software activities linked to the developments of the central safety systems and support the implementation of standards for the local plant safety control system development.

china

eu

india

### Major Duties/Responsibilities

japan

korea

russia

usa

- Manages the central safety systems' hardware and software;
- Defines the interfaces with all the plant systems, the ranking of the safety functions and the development of procedures for system integration;
- Contributes to the preparation of technical specifications for the calls for tender and the evaluation of technical solutions;
- Carries-out the technical follow-up of contracts for the systems realization;
- Manages the local commissioning and the preparation of the integrated commissioning;
- Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.

### Qualifications and Experience

- **Education:**
  - Degree at least equivalent to 4 years of study after the High School Diploma, in Engineering.
- **Technical experience:**
  - At least 8 years' experience in the design and implementation of instrumentation and control systems in the nuclear field;
  - Experience in the preparation of supporting documentation for the Nuclear French authorities in the field of instrumentation and control systems;
  - Good knowledge of Instrumentation Control systems in Nuclear Power Plants standards;

- Good knowledge and practical experience in functional safety analysis;
  - Good knowledge of large systems integration;
  - Clear understanding of the problems linked with control systems in large facilities and with the integration of heterogeneous industrial subsystems, is required.
- ***Project experience:***
  - Knowledge of ITER will be an advantage.
- ***People Management experience:***
  - Experience in managing contracts would be an asset.
- ***Social Skills:***
  - Ability to work effectively in a multi-cultural environment;
  - Ability to work in a team and to promote team work.
- ***Language requirements:***
  - Fluent in English (written and spoken);
  - Proficient in French (written and spoken).

## **Direct Supervisor and Interfaces**

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- Reports to the Central Interlock & Safety Section Leader;
- Acts as an interface between all the Responsible Officers for the implementations of the local plant safety control systems.

## **Authority / Approval Levels**

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This position has authority and approval levels generally defined by the Central Interlock & Safety Section Leader for his/her scope of work.

## **Measures of Effectiveness**

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- Successfully establishes interfaces with all the plant systems;
- Successfully implements the development standards for the safety control systems;
- Successfully establishes the list and the ranking of the safety functions;
- Prepares the call for tender documentation in a timely manner;
- Successfully prepares the ITER systems installation;
- Successfully prepares and carries out the local systems' commissioning.