Job Title: Access Control Engineer IO0973

Req ID **1640** - Posted **21/04/2020** - (France, 13067 St Paul Lez Durance Cedex) - **Control and Data Acquisition** - **New Posting**

The ITER Organization brings together people from all over the world to be part of a thrilling human adventure in southern France—building the ITER Tokamak. We require the best people in every domain.

We offer challenging full-time assignments in a wide range of areas and encourage applications from candidates with all levels of experience, from recent graduates to experienced professionals. Applications from under-represented ITER Members and from female candidates are strongly encouraged as the ITER Organization supports diversity and gender equality in the workplace.

Our working environment is truly multi-cultural, with 29 different nationalities represented among staff. The ITER Organization Code of Conduct gives guidance in matters of professional ethics to all staff and serves as a reference for the public with regards to the standards of conduct that third parties are entitled to expect when dealing with the ITER Organization.

The south of France is blessed with a very privileged living environment and a mild and sunny climate. The ITER Project is based in Saint Paul-lez-Durance, located between the southern Alps and the Mediterranean Sea—an area offering every conceivable sporting, leisure, and cultural opportunity.

To see why ITER is a great place to work, please look at this video

Application deadline: 02/06/2020
Domain: Science & Operation
Department: Science,Controls & Operation
Division: Controls
Section: Facility Control System
Job Family: Project Engineering
Job Role: Engineer - 1
Job Grade: P2
Language requirements: Fluent in English (written & spoken)
Contract duration: Up to 5 years

Purpose

As an Access Control Engineer, you will work as part of a team of engineers. Predominantly collaborating with the Security Systems Responsible Officer, you will be required to perform and monitor activities linked to the design and delivery of the Access Control and Security systems (including the qualification, procurement, installation, integration and commissioning of the system).
You will ensure strong interface management with the installation and integration teams.

Background information:
The Facility Control Systems (FCS) section is in charge of the design, manufacturing and commissioning the Central Safety Systems (CSS) for nuclear safety and occupational safety involved in the protection of the persons and the environment against radiological and non-radiological hazards, the Central Interlock Systems participating in the protection of the investment and the Access and Security System (ACS) providing the security and protection of the ITER plant from malevolent action and from access by unauthorized and unqualified personnel.
The Access Control and Security system (ACS) is composed of Access Control, Video Surveillance, and safety communication means like Public Address, Emergency Phones, Emergency Buttons, Site Sirens and Revolving Lights etc.
Some of the subsystems are subject to licensing by the French nuclear safety authority (ASN) and shall comply with the international nuclear standards (IEC61513 and associated standards).
The security subsystems are subject to French Order of 10 June 2011 on the physical protection of facilities housing nuclear materials for which possession requires authorization.

Major Duties/Roles & Responsibilities

- Takes a leading role in the preparation of installation documentation of all components and sub-systems associated with the Access Control and Security systems;
- Defines and justifies field component fixture methods to buildings and structures;

- Participates in the preparation of ACS design reviews and other relevant validation meetings;
- Manages the acceptance tests/qualification and delivery (Factory and Site Acceptance tests), both on and off site, of the ACS Systems and related components, as well as in on-site commissioning activities;
- Provides technical support related to reviewing contractor's deliverables, performing surveillance tasks, alerting on technical issues proposes solutions and managing deviations and provides suitable solutions to anticipated issues where necessary;
- Takes an active role in the preparation and qualification demonstration of components, as per nuclear safety I&C standards and requirements;
- Delivers the documentation needed for field deployment of Access Control and Security equipment;
- Defines interfaces and maintains related documents updated and recorded according to the ITER Organization Management Quality Program;
- Prepares Engineering Work Packages and Construction Work Packages;
- Monitors procurement and the follow-up of contracts to supply standard equipment and support integration activities, by issuing and maintaining regular reports, preventing claims and solving issues in close collaboration with Procurement and Contracts Division and Legal Affairs;
- May be requested to be part of any of the project/construction teams and to perform other duties in support of the project;
- May be required to work outside ITER Organization reference working hours, including nights, weekends and public holidays.

Measures of Effectiveness

- Ensures that Engineering Work Packages and Construction Work Packages are delivered in due time;
- Ensures that acceptance tests are performed to a high standards and that relevant documentation is prepared in due time and consistent with applicable requirements and standards;
- Manages efficiently deviations and non-conformities throughout their entire lifecycle;
- Establishes efficient working relations with colleagues, stakeholders and construction teams ;
- Keeps relevant documentation up-to-date and produces technical documentation to a high quality.

Qualifications and Experience

- *Professional Experience:*
  - At least 5 years of practical experience in engineering of control systems, including design, implementation, testing and commissioning.
- *Ability to obtain and maintain French Security clearance.*
- *Education:*
  - Master's degree or equivalent in Engineering, Security, Control Systems, Electronics or other relevant discipline;
  - The required education degree may be substituted by extensive professional experience involving similar work responsibilities and/or additional training certificates in relevant domains.
- *Language requirements:*
  - Fluent in English (written and spoken);
  - Working level of French would be advantageous.
- *Technical Competencies and demonstrated experience in:*
  - Performing worksite installation of security systems devices;
  - Conducting integration, acceptance and commissioning of field sensors/actuators, security and I&C systems;
  - Performing Factory and Site Acceptance Tests;
  - Delivering high quality technical consolidated reports and documentation in English;
  - Monitoring the execution of contracts to quality, schedule and cost;
  - Quality Assurance/Quality Control procedures and standards for the installation, commissioning and operation of control systems. working to international nuclear standards is advantageous;
  - Using the following Microsoft Office Tools: Outlook, Word, Excel, Visio, SharePoint.
- *Behavioral Competencies:*
  - Excellent organizational skills and the ability to set priorities and meet deadlines
  - Collaborate: Ability to dialogue with a wide variety of contributors and stakeholders;

- Communicate Effectively: Ability to adjust communication content and style to deliver messages to work effectively in a multi-cultural environment;
- Drive results: Ability to persist in the face of challenges to meet deadlines with high standards;
- Manage Complexity: Ability to gather multiple and diverse sources of information to understand problems accurately before moving to solutions;
- Instill trust: Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.

The following important information shall apply to all jobs at ITER Organization:

- Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, ITER Values (Trust; Loyalty; Integrity; Excellence; Team mind set; Diversity and Inclusiveness) and Code of Conduct;
- ITER Core technical competencies of 1) Nuclear Safety, environment, radioprotection and pressured equipment 2) Occupational Health, safety & security 3) Quality assurance processes. Knowledge of these competencies may be acquired through on-board training at basic understanding level for all ITER staff members;
- Implements the technical control of the Protection Important Activities, as well as their propagation to the entire supply chain;
- 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;
- May be requested to be part of any of the project/construction teams and to perform other duties in support of the project;
- Informs the IO Director-General, Domain Head, or Department/Office Head of any important and urgent issues that cannot be handled by lline management and that may jeopardize the achievement of the Project's objectives.