

# Job Title: Access Control Engineer IO1113

Requisition ID **5740** - Posted - (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:** 13/03/2022

**Domain:** Science & Operation

**Department:** Science, Controls & Operation

**Division:** Controls

**Section:** Facility Control System

**Job Family:** Engineering

**Job Role:** Engineer – 3

**Job Grade:** P3

**Language requirements:** Fluent in English (written & spoken)

**Contract duration:** Up to 5 years

## **Purpose**

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As an Access Control Engineer, you will work within the Access Control and Security systems (ACS) team where you will manage large multidisciplinary contract related to ACS. You will take the responsibility of the integration, validation and commissioning of some ACS sub-systems. You will also perform activities linked to the manufacturing design, procurement, installation of subsystems involved in the security and protection of the ITER site.

Together with the Access Control and Security systems team, you will ensure that these systems meet the project requirements and are delivered on time.

## **Background information:**

The Facility Control Systems (FCS) section is in charge of the design, manufacture and commission the Access and Security System (ACS) which provide the security and protection of the ITER plant from malevolent action and from access by unauthorized and unqualified personnel, the Central Safety Systems (CSS) involved in the protection of people and the environment against radiological and non-radiological hazards, and the Central Interlock Systems participating in the protection of the Investment.

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.

Some of these 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**

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- Manages the large multi-disciplinary contracts related to Access Control and Security, ensuring the systems are delivered as per schedule and in consistence with the cost and baseline requirements;
- Manages the procurement process, including writing the technical specifications, evaluating tenders' technical and financial , identifying gaps between offers with technical requirements of specifications;
- Provides technical expertise for ACS components/systems as required;
- Manages the integration, validation and commissioning of heterogeneous ACS subsystems deployed in different buildings and areas all over the ITER site.
- Manages the resolution of technical issues and/or claims till their full resolution;
- Prepares and conducts the Factory Acceptance Tests, Site Acceptance Tests and commissioning tests of Access Control and Security systems, till their complete approbation;
- Specifies the necessary fixture means of ACS components in consistence to device loads and buildings structures;
- Ensures that components and systems are qualified as per applicable safety and security standards;
- Reviews deliverables, performs surveillance tasks, alerts on technical issues and manages deviations;
- Collaborates with ITER Safety and Security Department in order to ensure that requirements are correctly implemented in the ACS systems;
- Defines interfaces and maintains related documents updated and recorded according to the ITER Organization Management Quality Program;
- 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**

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- Ensures the systems is delivered in due time, as per requirements and within the defined cost and schedule;
- Ensures that test and validation procedures are in line with relevant codes and Standards, and conducts the tests to guarantee their full compliance to requirements;
- Accurately prepares documentation, being on time and consistent with applicable requirements and standards;
- Prepares and keeps the detailed interfaces with other systems up to date;
- Manages deviations and non-conformities throughout their entire lifecycle effectively and efficiently;
- Establishes efficient working relations with colleagues, stakeholders and construction teams ;

### **Qualifications and Experience**

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- **Professional Experience:**
  - Minimum 8 years' experience in integration, validation, commissioning of Access Control and Security I&C systems including extensive experience in the procurement and project management of such systems within complex international environments.
  - 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:**
  - **Project Management (including large procurement):** Managing the execution of supply contracts related to ACS in compliance with technical baseline, quality, schedule and cost;
  - **Validation and Commissioning:** defining the tests procedures and conducting the tests of standalone sub-systems and integrated large ACS systems;
  - **Interface Management:** Identifying, resolving and maintaining interfaces with other systems, integration in buildings, installation, worksite follow-up, acceptance and commissioning of field sensors/actuators, security and I&C systems;
  - Delivering high quality technical consolidated reports and documentation in English;
  - **Quality Assurance/Quality Control:** Performing Factory and Site Acceptance Tests and Adhering to 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 work independently, 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 proposals;
  - Problem Solving: Ability to assess complex problems, identify root causes, and reach practical solutions to reach project objectives within time and cost;
  - Instill trust: Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.

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***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 line management and that may jeopardize the achievement

of the Project's objectives.