Job Title: Access Control Commissioning Engineer IO0288

Requisition ID **6827** - 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.

ITER Organization (IO) is an Equal Opportunity/Inclusive organization committed to diversity in the workplace, with diversity and Inclusiveness being one of the ITER Values.

As IO attracts and retains people coming from a vast array of different backgrounds and cultures, bias and exclusion cannot be tolerated. IO believes it is our diverse perspectives and backgrounds that gives unique strength and value to the ITER mission, regardless of race, member nation, gender, religion, status, sexual orientation, or disability - all are welcome and respected at ITER.

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: 29/01/2023
Domain: Science & Operation Domain
Department: Science, Controls & Operation Department
Division: Controls Division
Section: Facility Control System Section
Group: Not applicable
Job Family: Engineering
Job Role: Engineer – 3
Job Grade: P3
Language requirements: Fluent in English (written & spoken)
Contract duration: Up to 5 years

Purpose

As an Access Control Commissioning Engineer, you will work within the Access Control and Security systems (ACS) team where you will manage the installation of various I&C field devices located in site buildings and their correct integration in the different ACS subsystems. You will be responsible for providing technical expertise, guidance and decision related to ongoing contracts for I&C Systems related to Access Control and Security.
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 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 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.

Key Duties, Scope, and Level of Accountability

- Manages the integration, validation and commissioning of some heterogeneous ACS subsystems deployed in different buildings and areas all over the ITER site;
- Manages multi-disciplinary contracts or task-orders related to I&C/ACS systems, particularly related to technical matters, ensuring the systems are delivered as per schedule and in consistence with the cost and baseline requirements;
- Takes a lead in technical decisions and providing practical guidance on site for the installation, testing, integration and commissioning of various I&C systems involved in access control and security;
- Leads the preparation of installation documentation of some I&C devices and sub-systems associated with the Access Control and Security systems;
- Participates in the specification of necessary fixtures for ACS components in compliance with device loads and buildings structures;
- Manages the ACS change management process, and associated system baseline documentation update;
- Takes an active role in the preparation of qualification tests of I&C components, in compliance with nuclear safety I&C standards and requirements;
- Manages the resolution of technical issues and/or claims till their full resolution;
- Reviews deliverables, performs surveillance tasks, alerts on technical issues and manages deviations as required;
- 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.

Measure of Effectiveness

- Ensures the I&C components are integrated in the different ACS sub-systems with full compliance with systems requirements;
- Ensures that test, validation and commissioning procedures are in line with relevant codes and standards, and conducts the tests to guarantee their full compliance to requirements;
- Ensures the systems are delivered in due time, as per requirements and within the defined cost and schedule;
- Accurately prepares documentation and procedures, 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;

Experience & Profile

- ***Professional Experience:***
  - Minimum 8 years' experience in integration, validation, commissioning of Control systems, preferably related to Access Control and Security I&C including extensive experience in on-site installation of such systems within complex industrial environments.
- ***Ability to obtain and maintain French Security clearance.***
- ***Education:***
  - Master's degree or equivalent in Engineering, Security I&C based systems, 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);
- ***Other requirements:***
  - For staff expected to perform on-call, shift hours, or other work outside ITER Organization reference working hours, including nights, weekends, and public holidays, the possession of a driving license valid in France is required. No commuting vehicle will be provided by the ITER Organization.
- ***Technical competencies and demonstrated experience in:***
  - **Installation:** Preparing the installation procedures of various field devices involved Access and Security systems, inspecting the installation works to ensure their compliance to procedures, delivering the installation verification reports;
  - **Validation:** Defining the detailed tests procedures and conducting the tests of standalone and integrated systems in relation to Access Control and Security/I&C, including performing Factory and Site Acceptance Tests;
  - **Overall system integration and commissioning**: Ensuring the complete integration and commissioning of various sub-systems implementing Access Control and Security functions, including the complete demonstration of compliance to system requirements;
  - **Interface Management:** Identifying, resolving and maintaining interfaces with other control I&C systems as well as with field instrumentation and services (power supplies, cable trays, …);
  - **Procurement & Contract Management:** Participates in the management of contracts to supply standard equipment, as well as to contracts which support integration activities;
  - **Problem Solving**: Ability to assess complex problems, identify root causes, and reach practical solutions to reach project objectives within time and cost;
  - Delivering high quality technical consolidated reports and documentation in English;
  - **Quality Assurance/Quality Control:** 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 (in additional to Core competencies):***
  - Excellent organizational skills and the ability to work independently, to set priorities and meet deadlines.

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 (Knowledge of these competencies may be acquired through on-board training at basic understanding level for all ITER staff members) :
  1) Nuclear Safety, Environment, Radioprotection and Pressured Equipment
  2) Occupational Health, Safety & Security
  3) Quality Assurance Processes
- ITER Core Behavioral Competencies :
  1) Collaborate: Ability to facilitate dialogue with a wide variety of contributors and stakeholders
  2) Communicate Effectively: Ability to adjust communication content and style to deliver messages to work effectively in a multi-cultural environment
  3) Drive Results: Ability to persist in the face of challenges to meet deadlines with high standards
  4) Manage Complexity: Ability to analyze multiple and diverse sources of information to understand problems accurately before moving to proposals
  5) Instill Trust: Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity
- 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.