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## JOB DETAIL

Ref. IO1959 - 3/13/2018

### Network System Technician SCOD-051

**Main job** Network

**Department** SCOD / Science & Operations Department

**Division** SCOD / Control System Division

**Section** SCOD / CSD / CODAC Section

**Job Family** Technician - 3

**Application Deadline  
(MM/DD/YYYY)** 04/25/2018

**Grade** G4

**Direct employment** Not required

**Purpose** To support the deployment of CODAC network infrastructure for the plant Instrumentation and Control systems (I&Cs), Control Rooms and Server Rooms;  
To support the delivery, operation and maintenance of network infrastructure for CODAC Central services to integrate with the central control system;  
To provide support and assistance for the preparation and implementation of network cabling contracts;  
To oversee the installation, testing, quality control of network systems and documentations under the above contracts;  
To assist the operation of CODAC network infrastructure for 24h/7d without interruption to ensure ITER operation.

#### Background information:

The ITER I&C system is composed of central I&C systems and plant I&C systems which are located in buildings distributed over the whole ITER platform and are interconnected via optical-based network using dual-star topology. Currently plant buildings are coming to be ready to install plant systems in aligned with the delivery schedule. Accordingly, CODAC should deliver the network connection and provide network services for integration, testing and commissioning of plant systems that will in earnest happen in 2018 with the early delivered plant systems.

**Main duties / Responsibilities**

- Contributes to the construction of the central I&C network cabling over the ITER platforms including the inter-building network cabling by providing technical specifications, monitoring the works and executing the quality assurance tests;
- Participates in the construction of the central I&C network systems in ITER control rooms and server rooms in the assigned buildings by making technical specifications, procurements, deployments, testing and validations;
- Operates and keeps the central I&C network systems up running thru proactive maintenances and troubleshooting;
- Participates in the deployment, operation and maintenance of all CODAC infrastructure without any interruption by providing on-call service if necessary;
- Sets up and maintains the test environments for CODAC development needs in the aspects of network;
- Monitors the quality of work sub-contractors are providing within the CODAC infrastructure;
- Maintains the security policies of the CODAC infrastructure respecting the requirements of ISO/IEC27000-series and ISO/IEC62645 standards;
- Documents and maintains all procedures to support above activities;
- May be requested to be part of any of the project/construction teams and to perform other duties;
- May be required to take part in the on-call duty service established by the ITER Organization (IO) outside ITER Organization reference normal working hours, including nights, weekends and public holidays;
- Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.

**Measures of effectiveness**

- Reports to the CODAC Section Leader;
- Closely interfaces with the CODAC Development Team;
- Acts as an interfaces with all clients using CODAC network services;
- In response to requests from the Director-General and/or Head of Science & Operations Department (SCOD), or proactively, informs the DG/ Head of SCOD of any important and urgent issues that cannot be handled by the concerned line management and may jeopardize the achievement of the Project's objectives.

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- Delivers all central I&C networks within the project schedule and keeps them (development and production) up and running;
- Keeps CODAC technical room up and running to support development of ITER I&C systems;
- Provides an efficient support in the operation and maintenance of all CODAC infrastructure for 24h/7d;
- Provides an effective support to any developers using the CODAC development environment within the defined quality and schedule;
- Perform timely and accurately the work duties and reporting as described in the Detailed Work Schedule.

Project Construction Phase

<b>Level of study</b>	Bachelor or equivalent degree
<b>Diploma</b>	Network engineering or other relevant discipline
<b>Level of experience</b>	At least 5 years
<b>Technical experience/knowledge</b>	<ul style="list-style-type: none"> <li>-At least 5 years of experience in supporting the development of network systems, in various phase of a nuclear or industrial project using standards such as TCP/IP or IEEE 802 and services such as DNS, DHCP, NTP, or PTP, etc;</li> <li>-Experience in high bandwidth fiber optic based Ethernet networking;</li> <li>-Experience in passive network components (cables, connectors, patching, splicing, etc.);</li> <li>-Experience in monitoring and maintaining large scale network installations;</li> <li>-Experience in network security based on standards such as IEC 2700-series considered an advantage;</li> <li>-Experience in industrial communication standards such as Profinet, IEC61850, etc considered an advantage;</li> <li>-Experience in selecting, purchasing, configuring and deploying network switches in large scale network installation considered an advantage.</li> </ul>
<b>Social skills</b>	<ul style="list-style-type: none"> <li>Ability to work effectively in a multi-cultural environment</li> <li>Ability to work in a team and to promote team spirit</li> </ul>
<b>Specific skills</b>	MS Office standard (Word, Excel, PowerPoint, Outlook)
<b>General skills</b>	<ul style="list-style-type: none"> <li>-Extensive experience in similar jobs (involving similar work responsibilities) and/or additional training certificates in relevant domains (e.g. CCENT) may be considered a reasonable substitute for the required educational degree.</li> <li>-Excellent organizational skills and the ability to set priorities and meet deadlines;</li> <li>-Ability to facilitate dialogue with a wide variety of contributors and stakeholders;</li> <li>-Ability to adjust communication content and style to deliver messages;</li> <li>-Ability to persist in the face of challenges to meet deadlines with high standards;</li> <li>-Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.</li> </ul> <p>Excellent computer and IT skills (MS Office, Linux, and proprietary network management solutions) are mandatory.</p>
<b>Languages</b>	English (Fluent)

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