

JOB DETAIL

Ref. IO1799 - 12/19/2016


Linux System Administrator - SCOD-025

Main job	System Administration
Department	SCOD / Science & Operations Department
Division	SCOD / Control System Division
Section	SCOD / CSD / CODAC Section
Job Family	Coordinating Technician
Application Deadline (MM/DD/YYYY)	01/31/2017
Grade	G5
Direct employment	Required
Purpose	<p>-To be in charge of the administration of all Linux systems used in the CODAC development and production environments.</p> <p>-To work together with contractors to provide the required services such as installation of hardware and software, configuration and virtualization, software distribution, testing, trouble shooting etc.</p> <p>-To support 24/7 operation of critical services.</p> <p>-To maintain the knowledge of all aspects of Linux system administration applied for CODAC systems.</p>

Background information:  
The ITER control system to be used to operate ITER (CODAC) is based on a large set of central Linux servers and workstations as well as local controllers running Linux. Currently a powerful development environment is in operation and systems are being exported to plant system developers among all ITER members. In late 2017 the first target production systems will be deployed on the ITER construction site and plant system commissioning will start.

Main duties / Responsibilities	<p>-Administers and maintains all CODAC servers in CODAC development environment;</p> <p>-Administers and maintains all CODAC servers in CODAC temporary infrastructure deployed on ITER construction site;</p> <p>-Administers and maintains the remote secure access to CODAC development environment and target infrastructure;</p> <p>-Administers and maintains the Linux environment in the I&amp;C Integration Kits distributed to plant system developers in the Domestic Agencies and their suppliers (amounting to several hundred I&amp;C Kits);</p> <p>-Assures the system integration and reception of the returning I&amp;C Integration Kits and the associated controllers;</p> <p>-Guarantees the availability of the up to date backup of both the system and data of CODAC servers;</p> <p>-Develops the emergency recovery procedures and trains all stand-by personnel to those;</p> <p>-Supports the detailed design of CODAC target servers;</p> <p>-Supports the integration and commissioning of CODAC target servers;</p> <p>-Supports the fully automated installation of CODAC services on multiple servers;</p> <p>-Interacts with suppliers of servers and operating systems;</p> <p>-Maintains the security policies of the CODAC infrastructure respecting the requirements of ISO/IEC27000-series and ISO/IEC62645 standards;</p> <p>-May be required to work outside normal working hours, including nights, weekends and public holidays, in particular participating in on call support for critical services;</p> <p>-Documents all procedures to support above activities;</p> <p>-Performs other duties in support of the project schedule;</p> <p>-May be requested to be part of any of the project/construction teams and to perform other duties;</p> <p>-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and</p>
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	ethics.
	-Reports to the CODAC Section Leader; -Interfaces with the CODAC Development Team; -Interfaces with plant system developers in Domestic Agencies and their suppliers using CODAC Core System;
Measures of effectiveness	-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.  -Provides efficient administration and support of all CODAC Servers and controllers running Linux operating system; -Provides statistical analysis and summary reports of the availability of CODAC servers, Storage and Controllers, including CODAC services on those and the network interfaces of those; -Maintains and supports the distribution of CODAC software to plant system developers; -Provides efficient support for selection, deployment, integration, commissioning, operation and maintenance of CODAC servers.
	Project Construction Phase SAP Id: 50002325
Level of study	At least Bachelor's degree or equivalent
Diploma	System Management
Level of experience	At least 7 years
Technical experience/knowledge	-Extensive experience in similar jobs (involving similar work responsibilities) and/or additional training certificates in relevant domains may be considered a reasonable substitute for the required educational degree.  -At least 7 years' experience in Linux system administration required; -Experience in Red Hat products RHEL, RHEV, RHS and RHN satellite required; -Experience in network services such as DNS, DHCP, NFS, etc. required; -Experience in web services such as Tomcat, Samba, etc. required; -Experience in databases such as MySQL, MS SQL, Oracle, PostgreSQL, etc. required; -Experience in scripting languages such as Python, Bash, etc. required; -Experience in configuration control systems such as Puppet, etc. required.
Social skills	Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook) Oracle
General skills	-Participation to the construction/integration/operation of scientific or technical facility; -Experience working in international environment
Languages	English (Fluent)