SENIOR SYSTEM ADMINISTRATOR

Deadline: 23 February 2020
Ref: IA/20/6

Company description

Elettra Sincrotrone Trieste is an international multidisciplinary research center operated as a user facility, featuring a 2.0/2.4 GeV, third-generation synchrotron light source (Elettra), a new free-electron laser light source (FERMI) and a variety of support laboratories. The extremely high quality of the machines and beamlines has set new performance records and has been producing results of great scientific and technological interest. See http://www.elettra.eu for more information.

Job description

The successful candidate will work at Elettra - Sincrotrone Trieste S.C.p.A. (hereafter "Elettra") in the System Administrators Team, ICT Systems and Services, IT Group.

In his/her activity he/she will deal with the design, implementation, administration and maintenance of:

- virtualization systems based on Proxmox, Xen and VMWare;

- docker deployments and related orchestration tools;

- distributed storage systems based on Ceph, GlusterFS and LizardFS;

- enterprise level tape storage systems based on robotized libraries with multiple drives and capable of thousands of cartridges;

- backup systems based on Opensource software;

- monitoring systems based on Opensource software;

- HPC clusters based on blade chassis;

- TANGO Control System for experimental facilities.

He/she will support the scientific activities at Elettra, including the control systems and the ones devoted to collection, storage and processing of scientific data.

He/she will give support to scientists on the experimental end-stations of the accelerators with the installation and maintenance of the operating systems for the workstations.

He/she will collaborate with the other System and Network Administrators in the development or renewal of the IT infrastructure at Elettra and for new or existing end-stations.

He/she will also collaborate with other colleagues to give IT support to the European Projects in which Elettra is part of, such as those connected with ExPaNDS, EOSC-hub, CALIPSOplus and PaNOSC.

Qualifications

Applicants must have a Diploma of an industrial or professional institute preferably in electronic / telecommunications / computer science.

The position requires a proven track record in the following areas:

- design, installation and administration of client and server systems based on Unix-like operating systems, with special

reference to CentOS, Debian and Ubuntu Linux distributions;

- integration of systems based on Unix-like operating systems with MacOS and Windows platforms;

- basic database installation and administration, with special reference to Oracle, MySQL and PostgreSQL;

- design, installation and administration of directory services, with special reference to LDAP;

- solid understanding of computer networking and experience with high performance networking;

- design, installation and administration of distributed storage systems, with special reference to Ceph, GlusterFS and LizardFS;

- design, installation and administration of HPC (High Performance Computing) clusters;

- design, installation and administration of virtualization systems based on open source software, with special reference to Proxmox and Xen;

- deployment of docker-based systems;

- management of high capacity data storage infrastructure based on LTO and LTFS;

- installation and administration of network backup systems, with special reference to open source solutions like Bacula, Bareos, Duplicati;

- monitoring of system health and status with Nagios/Icinga, Zabbix, Prometheus, Ganglia and similar Opensource software;

- production of documentation about the systems managed, with team-collaboration in mind.

Advantages over other candidates will be given by:

- 5 or more years of working experience in the IT field in research centers;

- experience of orchestration tools to manage large docker deployments, such as Kubernetes;

- system-administration knowledge and experience of controls systems based on the Tango toolkit (https://www.tango-controls.org);

- management of web servers installations.

The successful candidate must have team-working attitude, be proactive in problem solving, react quickly to emergency and urgent troubles, demonstrate abilities to report clearly and efficiently the workflow, be available for on-call periods , if needed.

He/she must be available for short-term working trips to other research facilities located mainly, but not only, in Europe. A fluent knowledge of written and spoken Italian and English is mandatory.

The deadline for the submission of the application is February 23, 2020.

The appointment envisioned is a permanent position. The salary will be commensurate with previous experience and qualifications of the candidate.

Applications should include a full curriculum vitae and the names and contact information (including electronic mail) of possible two references.

We thank all applicants in advance.

For more information, please contact Roberto Pugliese (email: roberto.pugliese@elettra.eu).

To apply for this position please visit the following link:
https://www.elettra.trieste.it/it/about/careers/working-withus.html?ref=IA%2F20%2F6