Call for contribution of expertise

CERN invites collaborating institutes and universities to contribute the expertise of their qualified employees to the activity described below.

System Administrator

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Description of the Project:

The ATLAS Trigger and Data-Acquisition System Administration team manages the ATLAS online computing infrastructure. This is a mission-critical quasi-realtime heterogeneous computing system composed by roughly four thousand interconnected computers, distributed across an underground cavern and a surface data centre. The system accounts approximately four thousands users.

The System Administration team is responsible for all aspects associated with such a large computing infrastructure, including in particular hardware upkeep and refurbishment, operating system deployment and tuning, operational monitoring and computer security. In addition they guarantee the correct functioning of the core computing infrastructure, consisting of name and time servers, DHCP relays, web servers, MySQL and LDAP clusters, gateways, storage and virtualisation systems.

The selected candidate will be fully integrated in the System Administration team, working and collaborating with the existing experts. She will share all team duties, from the day to day system operation to user support and troubleshooting. In due time the candidate will also take responsibility for specific projects, like the improvement of the monitoring and management tools, the review of the web application deployment mechanisms or the update of the software distribution and replication scheme.

Profile: Master Degree or Bachelor in Computer Science or similar.

Experience: Knowledge of Linux OS (in particular RHEL/CentOS variants), scripting languages (Bash, Python) and software development tools (Git). Experience with computer hardware troubleshooting and maintenance.

Starting Date: ASAP (flexible)

Status at CERN: Associated Member of the Personnel (Project Associate).

Conditions in accordance with CERN’s Staff Rules and Regulations and Administrative Circular No. 11.

Subsistence allowance is payable by CERN to cover the additional cost arising from the individual’s (and, as applicable, their family’s) stay in the local area while performing activities at CERN.