

Systems Administrator

The African Institute for Mathematical Sciences (South Africa) is a residential graduate mathematics institute in Muizenberg. We have around 90 taught Master's students, as well as research-based Master's and PhD students. Our research centre hosts postdoctoral fellows and other research staff. Our students are drawn from across Africa. AIMS is unique in that the courses are taught by international lecturers, who are leaders in their field, and who stay on site with our students in an immersive teaching experience for 3-4 weeks at a time.

We are searching for a **Systems Administrator** to take care of our physical infrastructure, both on-site and remote, which consists of servers, access points, routers and other equipment, as well as system accounts and server software.

Responsibilities

- Research, formulate and implement networking solutions as required by the institution
- Monitor servers and networking equipment for faults
- Troubleshoot and repair server/networking hardware and software issues
- Set up virtual machines in the form of KVM virtual machines and LXC/LXD containers
- Learn our configuration management stack and maintain software on both physical servers and virtual machines
- Set up and maintain networking switches, access points, virtual private networks, VLANs, etc
- Provide first level support to lecturers, staff and tutors in terms of networking and server software and occasionally in other areas where needed
- Manage Google Workspace (users, groups, e-mail accounts, Google Sites, Google Drive)
- Manage backups and recovery for servers and laptops
- Documentation for network/server infrastructure and software

Qualifications Required

- Solid Linux experience is essential, experience with Debian or Ubuntu is preferred
- Basic networking skills are essential (eg. TCP/IP, OpenVPN, DHCP, DNS, smtp)
- Advanced networking skills are highly advantageous (eg. Radius server/client, Eduroam, VXLAN, NFS)
- Server software knowledge is highly desirable (Apache, LDAP, Samba, CUPS, etc)
- Formal qualifications like CompTIA Network+, Mikrotik training or equivalent experience
- Administration experience of Google Workspace is highly beneficial
- Basic programming skills, such as shell or Python scripting is highly beneficial
- Experience with ZFS and other storage technologies is highly beneficial

Attributes Required

1. Honesty - perform with integrity and conduct yourself well
2. Professionalism - we often host leaders in the field, who are often funders
3. Self-assured - you'll have to say no to people sometimes
4. Reliability - be able to occasionally work after hours or weekends
5. Team worker - you'll have to work with all kinds of people with varying skill levels
6. Self-motivated - we don't micro-manage, so you need to be able to manage your day

Terms of Employment

This is a full-time, 2-year contract position, with the possibility of extension depending on performance and availability of external funding.

Applications

To apply, please submit the following as **ONE PDF** document to vacancies@aims.ac.za.

- A cover letter
- Your CV
- Your salary expectation

Applications will be accepted until **21 February 2025** or until the position is filled. If you do not hear from us in 4 weeks please consider your application as unsuccessful. AIMS South Africa reserves the right not to make an appointment at its sole discretion.