

OPPORTUNITIES

TO LIVE, WORK, AND STUDY AT KAUST

HPC Senior Systems Administrator

KAUST Core Labs & Research Infrastructure is seeking a highly motivated high performance computing (HPC) senior systems administrator to work in the state-of-the-art KAUST Supercomputing Core Lab (KSL) with the Advanced Computing Infrastructure team. The senior systems administrator will play a key role in providing technical expertise and support to the research community and will work in a highly collaborative and multicultural environment.

The successful candidate will work with team members to administer and maintain the 850 node Ibex supercomputer, storage systems, other support computers, networking fabrics and other related systems and services. He/she should have background in managing high performance data storage systems and monitoring large scale systems and automation experience.

The Core Labs & Research Infrastructure is service- and support-oriented. Therefore, good communication skills and approachability are key attributes. The candidate is also expected to keep abreast of current developments in the field and must be able to work under strict deadlines.

Major Responsibilities

- Work closely with all team members and specifically provide technical direction and mentoring to the system administrators.
- Continually maintain and monitor the HPC data storage fabric (including design, testing and analysis, as required).
- Maintain and participate in continuous development of IT skills as related to HPC systems.
- Interact professionally with end users and other university IT groups.

Qualifications & Competencies

- B.S. in related discipline with 10 years of experience; or M.S. in related discipline with 7 years of experience; or Ph.D. in related discipline with 5 years of experience.
- Demonstrated knowledge of and experience in managing clustered Linux systems, including securing systems, and day-to-day troubleshooting, monitoring, support, software packaging and working within industry-wide best practices.
- Experience with: Slurm workload scheduler; RHEL (or equivalent OS); virtualization (libvirt/QEMU); networking technologies; monitoring systems (Nagios, Graphite, Graphana, Collectd); cluster provision systems (i.e., Warewulf).
- Excellent written and oral communication skills in English.

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About King Abdullah University of Science and Technology

King Abdullah University of Science and Technology (KAUST) is a graduate-level research university located on the shores of the Red Sea. Our students, faculty, scientists, and engineers are addressing some of the world's most pressing challenges related to food, water, energy, and the environment. KAUST employees enjoy exceptional packages, including competitive salaries and relocation allowances, fully furnished on-campus accommodation, and comprehensive health insurance coverage.

KAUST also provides international schools (IB program) and a wide variety of recreation facilities.

The Core Labs at KAUST are a shared research facility comprised of 11 laboratories run by over 210 staff, with a mission to provide state-of-the art facilities, training, and services to KAUST students, faculty, researchers, their collaborators, and industrial partners. This centrally organized facility provides its 1500+ users with access to specialized research equipment and expert staff who have advanced degrees in science and engineering.



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