American University of Beirut  
Academic HPC Systems Director

The High Performance Computing (HPC) Facility and the Graduate Program in Computational Science (GPCS) at The American University of Beirut (AUB) are seeking an individual with a proven track record to fill a professorial rank position with dual role of Academic HPC Systems Director. As a faculty member in an appropriate academic Department, the successful candidate will be expected to offer courses in their area of expertise and contribute to curriculum development and assessment. S/he is expected to perform research in scientific high performance computing and related applications. The home department of the candidate will depend on the candidate’s research and academic profile. As an Academic HPC Systems Director, experience in scientific computing, high-performance data operations, algorithm analysis and design are required. Knowledge in operating systems internals and system programming as well as networking protocols is highly desirable. As the HPC Systems Director, this position reports to the Provost, and will have responsibility for design and construction of HPC software, and for the upgrade and day-to-day maintenance of state-of-the art hardware in the AUB IT data center. One key responsibility of the HPC Systems Director is to manage available HPC resources; plan the acquisition and procurement of required applications and relevant tools based on current and future needs of faculties; and coordinate with AUB IT the HPC system administration the timely allocation of required IT resources to achieve best HPC system performance, system and data security, data storage and processing power allocation, and research data back-up and recovery.

The HPC Systems Director should be able to lead an HPC system administration team, and will work with other system administrators and programmers, application support experts, and faculty partners in the design, implementation, ongoing operations and user support for high-end computing systems. S/he will also work on providing or supervising a suitable mechanism for user support, documentation and consulting to help ensure the efficient use of HPC resources by faculty members and their students.

Applicants should have a PhD in a field either directly related to high performance computing, or in which substantial experience in HPC was acquired. Other requirements of the position are: extensive experience of operating systems internals and system programming, in addition to experience with Linux/UNIX server and cluster hardware setup, configuration processes, administration and management; knowledge of best practices in securing Linux; developing and maintaining networks that service users in different fields; algorithm analysis and design, especially parallel and distributed algorithms. It is also highly desirable to have experience with virtualization and database administration.

To apply, send a cover letter, CV, and three letters of reference to the Provost. Files may be sent electronically to the Provost at hr@aub.edu.lb. The American University of Beirut is the preeminent liberal arts university in the Middle East, serving a diverse, multilingual student body. AUB is an Affirmative Action, Equal Opportunity Employer.