Scientific Officer / Assistant Scientific Officer in the Computing Services Centre *[Ref. D/261/09]*

City University of Hong Kong recently set up a High-Performance Computing (HPC) cluster, named CityU Burgundy, to support the computational needs for our faculty and researchers to address challenges and problems in artificial intelligence, machine learning, data science, quantum chemistry, chemical pathology, molecular dynamics, neuroscience, corpus linguistics, energy, weather, and mechanical and materials sciences. The CityU Burgundy is currently most powerful HPC setup amongst Hong Kong institutions.

The Computing Services Centre (CSC) at CityU is responsible for the management and services of the HPC and is now looking for Scientific Officer / Assistant Scientific Officer to join the HPC team to continuously manage and optimise the HPC facility, and to provide support for the users.

Duties
- Assist the Senior Scientific Officer in managing Research Computing services;
- Manage the HPC cluster with CPU and GPU nodes interconnected with fat tree InfiniBand high-speed network;
- Manage and maintain General Parallel files system (IBM Spectrum Scale), Cluster Management System (Bright Cluster Manager), and job scheduler (Slurm);
- Monitor HPC usage and adjust usage policies and resource limitations on need basis;
- Work with the operation team on the monitoring and regular maintenance of the infrastructure;
- Provide technical assistance and consultation to faculty, researchers, students, and technical staff on the use of the HPC platforms;
- Perform system performance analysis and benchmarks;
- Keep abreast of latest HPC related technologies and development by attending relevant global conferences;
- Work with researchers to acquire user requirements, debugging and optimizing scientific software and libraries, etc; and
- Perform any other duties as assigned.

Requirements
- A PhD/Master's degree in disciplines related to computational research with at least 3 years' relevant research experience;
- Experience in creating and configuring HPC workloads, preferably in Singularity environment;
- Knowledge of job scheduling platform (e.g. Slurm);
- Sophisticated Linux shell skills and scripting languages (e.g. csh, Bash, Awk, perl, and Python);
- Knowledge of advanced data storage technologies (BeeGFS, PFS, Lustre, etc) and high-speed network interfaces;
- Sound knowledge of HPC software stack and license architecture;
- Experience in Source Code Management tool such as GitHub is beneficial but not mandatory;
- Ability to assist in gathering user requirements and prepare requirement specifications;
- Ability to parallelize jobs and run computation effectively and efficiently using GPU & CPU;
- Being reliable, self-motivated, detail-oriented with strong sense of ownership, communication, analytical, problem-solving and interpersonal skills;
- Good command of written and spoken English and Chinese; and
- Ability to work independently.

Candidates holding a Bachelor's degree with not less than 3 years' relevant experience may be considered for appointment as Assistant Scientific Officer. Shortlisted candidates will be invited for a written test.

Salary and Conditions of Service

Remuneration package will be highly competitive, commensurate with qualifications and experience. Initial appointment will be made on a fixed-term contract; fringe benefits include gratuity, leave, medical and dental schemes.

Information and Application

Further information on the post and the University is available at http://www.cityu.edu.hk, or from the Human Resources Office, City University of Hong Kong, Tat Chee Avenue, Kowloon Tong, Hong Kong [Email : hrojob@cityu.edu.hk/Fax : 2788 1154 or 3442 0311].

To apply, please submit an online application at http://jobs.cityu.edu.hk. The closing date is **20 November 2020**. Applications will receive full consideration and only shortlisted applicants will be contacted. The University's privacy policy is available on the homepage.

City University of Hong Kong is an equal opportunity employer and we are committed to the principle of diversity. Personal data provided by applicants will be used for recruitment and other employment-related purposes.

Worldwide recognition ranking 48th, and 4th among top 50 universities under age 50 (QS survey 2021); 1st in the World's Most International Universities (THE survey 2020); 1st in Engineering/Technology/Computer Sciences in Hong Kong (ARWU survey 2016); and 2nd Business School in Asia-Pacific region (UT Dallas survey 2017).