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As a key player in research and innovation in Luxembourg, the Luxembourg Institute of Science and Technology (LIST) covers with its 560 employees the domains of materials, environment and IT. As an RTO (Research and Technology Organisation) and with its interdisciplinary impact-driven approach, LIST contributes to the development of Luxembourg's economy and society.

Computer system operator for HPC (M/F)

Ref: ERIN_2016-013_ERTP-HPC

Permanent contract

Context of intervention

The Luxembourg Institute of Science and Technology (LIST) is looking for a motivated computer system operator for its high performance computing (HPC) facility. The system consists of a number of Windows and Linux-based components for server-based scientific computing, a centralized storage, a backup library system and a Linux cluster. The HPC facility supports project teams in solving advanced and complex computation problems in environmental, biological, material sciences and technologies as well as in big data analytics.

Main missions

The primary responsibility of the selected candidate is the system administration of LIST's in-house HPC system. The candidate has to ensure full operation of this system.

Typical tasks include:

- administration and maintenance of the Windows (part of larger Active Directory Domain) and Linux servers (SLES, Ubuntu);
- OS installation and configuration;
- PBS of the Linux cluster and user management;
- backups and archival;
- system planning and extension and involvement in the acquisition of new components;
- user support (software installations, ...);
- participation in European consortia and fora (ETP4HPC, PRACE, Terratec,...).

In addition, the candidate may be involved in scientific programming: tasks include supportive work on the implementation, maintenance and upgrade of complex numerical models.

Profile

Education and experience

- Master Degree in Computer Science or other science domain with a professional experience in HPC operation
- Demonstrated experience in HPC operation and management
- Open minded, flexible and think interdisciplinary
- Creative, autonomous, have proven organizational and communicational skills

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Competencies

- Good understanding of HPC programming technologies (MPI, openMP, TBB, Fortran, ...)
- Very good knowledge of HPC related hardware technologies (Infiniband, AMD/Intel CPU arch...)
- Very good knowledge of Linux and Windows OS
- Good Bash scripting capabilities
- Good understanding of various compilers (Intel, GCC toolchain...)

Language

Proficient spoken and written knowledge of English is mandatory. Proficiency of at least one of the official languages of the country is an asset (French, German or Luxembourgish).

Contact

Candidates interested in the above position can **apply online on our website:** www.list.lu

The application file should include:

- a CV, including the publication list (if available)
- a motivation letter
- reference contacts
- any other document you may think useful to be considered in your application file.

More information on list.lu/jobs