Apply now

The mission of CeMM, the Research Center for Molecular Medicine of the Austrian Academy of Sciences, is to achieve maximum scientific innovation in molecular medicine for the improvement of health care. CeMM is an international research institute and a founding member of EU-LIFE, an alliance of leading European life science institutes. At CeMM, an international and creative team of scientists and physicians pursue free basic research in the life sciences in a large and vibrant hospital environment with an outstanding medical tradition and practice. CeMM's research is based on post-genomic technologies and focuses on diseases of major societal importance, such as immune and infectious diseases, cancer, aging, and metabolic disorders. CeMM operates in a unique mode of super-collaboration, linking biology with medicine, experimentation with computation, discovery with translation, and science with society and the arts.

CeMM discovers and develops technologies to explore human biology with the aim of defeating disease at its roots. **Science is our Medicine!**

CeMM is looking for a

Senior Systems Engineer (m/f/d)

Fulltime, 40 hours per week, Vienna

We are seeking a Senior Systems Engineer with a strong interest in High Performance Computing. The ideal candidate will have experience in deploying and configuring complex open-source packages as well as managing cluster schedulers. A solid background in Linux, scripting, and parallel file systems is essential. In this role, you will be responsible for the maintenance and development of our scientific computing cluster. The primary tasks on the cluster involve genome-wide proteomics, human genome next generation sequencing, and large-scale statistical modeling.

Your role

- Deploy and maintain the Scientific Computing computational and data science ecosystem, which includes approximately 1,000 cores with high bandwidth, low latency interconnects, GPUs, large-shared memory nodes, scientific workflows, and 2.5 petabytes of storage in a production environment.
- Troubleshoot, isolate, and resolve technical issues encompassing applications, systems, hardware, software, and network components. Actively monitor system performance and integrity.
- Design, develop, and implement system administration tasks, including hardware and software configuration, configuration management, networking, and metrics.
- Respond to and resolve user support tickets.

Environment

- Dell nodes: Ice Lake and Sapphire Rapids CPUs: totaling approximately 1,000 cores with 48 TB RAM
- EDR Infiniband interconnects
- Lustre: 2 Fileservers 2 Metadata Server 2.5 PB net capacity
- GPUs: three nodes with one NVIDIA L4: 24GB GPU memory, four nodes with two NVIDIA H100 PCIe: 94GB GPU memory each, and one node with NVIDIA HGX™ H100: four GPUs each with 80GB GPU memory

Your profile

- Bachelor's degree in computer science, engineering, or another scientific field (master's or PhD preferred).
- Over 8 years of progressive experience in HPC system administration and operations, preferably within a Redhat/CentOS Linux administration and Batch HPC cluster environment.
- Proven expertise in troubleshooting.
- Demonstrated ability to work collaboratively as part of a team and maintain a customer-focused approach.
- Familiarity with job schedulers such as Slurm.
- Proficient in scripting and programming.
- Preferable experience with parallel file systems and storage solutions such as Lustre.
- Knowledge of Infiniband is an advantage.
- Experience with configuration management and orchestration software, such as BCM, is preferred.
- Competence in reproducible software installations is desired.
- Familiarity with GPU technologies is advantageous.
- Experience with containerization tools such as enroot, pyxis, or apptainer is preferred.
- Proficiency in version control systems, such as git, is preferable.
- Ability to multitask effectively in a dynamic environment.
- Excellent communication skills and strong analytical abilities.
- Strong written, verbal, and interpersonal communication skills.

We offer

CeMM is a proud recipient of the HR Excellence in Research Award (HRS4R). This award demonstrates that CeMM cares about the well-being of its staff, that the recruitment process is open, fair, and transparent, and that CeMM provides professional appraisals and career development procedures. CeMM employs more than 300 members, including auxiliary groups, from 49 nationalities. The working language is English. The Institute promotes equal opportunities and is home to a mix of different talents, backgrounds, and competencies.

www.cemm.at

- Work in an experienced, interdisciplinary, and international team in one of Europe's leading research institutes.
- Plenty of opportunities to contribute and gain experience in a key area of biomedical research and precision medicine.
- A wide range of social, cultural and sports activities are organized by the Institute.
- Excellent benefits including full insurance coverage (health, accident, pension), healthcare services, subsidized company cafeteria.

- Minimum gross monthly salary of EUR 4,500 paid 14 times a year
- Normal working week is 40 hours. Core working time is the working time during which the employee must be present at the workplace. Monday to Thursday from 09:00 to 15:00 and Friday from 09:00 to 13:00. A maximum of 1 home office day per calendar week may be used.
- This role is based in Vienna, Austria. You will be required to relocate if you are based elsewhere, and you will receive a generous relocation allowance to support you.

Applications details

Please apply online: https://cemm.onlyfy.jobs/job/g42of0z7 your CV , cover letter and the contact details of 2 referees.

Additional information

City	Vienna
Position type	Full-time employee
Start of work	01.09.2025

Responsible

Memo Mokhles

Apply now