

REF 191203.2

**Scientific application / infrastructure specialist for
Linux research platform and HPC environment**

General

Start: 01.2020
Duration: 2 years
Amount: 100%
Place: Basel

Tasks

- Support an HPC migration project moving workloads to shared platforms including on premise HPC, container orchestration platform (k8s) and public cloud offerings
- Contribute to HPC/Scientific workflow and job submission optimization activities
- Experience giving training courses and developing material on complex applications and platforms
- Work with operational team on delivery/support of the scientific Linux application environment

Skills (must haves)

- At least 3 years of administering Linux HPC environments (****)
- Experience of Linux build and packaging tools (Make, CMake, Easybuild, RPM, Yum)(****)
- Proven experience working with installing and configuring scientific applications particularly on a Linux/Unix platform, examples: Schrodinger, Moe, Bowtie, Gromacs, R, Python, Matlab, Topspin, Pipeline Pilot (****)
- DevOPS approach: configuration management (e.g. puppet), automated build/release test & deployment (e.g. jenkins, git) (****)
- Cloud technologies, infrastructure/platform as a service, AWS, Google, Azure (****)
- Experience in fast changing environments where solutions are deployed and retired at high pace.
- Problem solving attitude
- Senior level technical operational skills, such as troubleshooting, capacity planning, and root cause analysis
- Writing application and platform documentation
- Performing platform and application benchmarking
- User training and education experience
- Excellent customer orientation and delivery focus with good end user perspective
- Scientific knowledge or awareness – bioinformatics, cheminformatics, life sciences
- Good communication and interpersonal skills
- Advanced English language skill is a must
- Ability to work effectively within a team, including virtual teams
- Clear goal orientation and supportive of change
- Proactivity, with a clear ability to think beyond boundaries, take controlled risks and assume responsibilities
- Desirable understanding of Computer Systems Validation and ITIL concepts
- Experience in a global organization, working in an international and multicultural environment is considered a valuable asset
- Active open source contributor
- English fluently, German nice to have

Skills (nice to have)

- Experience working with Parallel Filesystem (e.g. Lustre, GPFS) and Scale-out NAS (e.g. Isilon)
- Understanding of object storage, S3, swift
- Workload management, queue configuration (e.g. SLURM, LSF, Torque)
- Virtualization and containerisation awareness, tools including kubernetes, docker, singularity
- Knowledge of parallel programming techniques and tuning, openmp, mpi
- Knowledge of HPC cluster build and management tools (e.g. bright, xcat)
- Knowledge of HPC infrastructure components, infiniband networking, GPUs
- Scripting: shell, python, perl
- Big Data frameworks (e.g. Hadoop, Mapreduce, Spark)
- Monitoring tools/frameworks (e.g. nagios, ganglia, elk)
- Programming skills in high level languages such as Java or C++
- Professional Linux/Unix Certifications
- German

Contact

Are you interested in this job opening? Then please send your CV in English and range of salary through our website. For questions, please call us at +41 41 322 10 30.

We are looking forward to hearing from you!

Your INTEGRATE Team