

High Performance Computing System Engineer – Technical Leader

Qunova Computing, Inc. (www.qunovacomputing.com) is a quantum application startup with a focus in quantum chemistry and quantum algorithm development. Our goal is to accelerate new drug and material discovery by developing quantum computing software solutions that will deliver accurate electronic structures of large molecular and solid state systems.

Qunova is looking for a high performance computing (HPC) system engineer with experience in the numerical analysis of chemical modeling and/or related skills. He/she will be responsible for leading a team that develops and applies computational methods integrating quantum computing, AI, and quantum chemistry software, and managing the corresponding workflows to support all aspects of computational analysis. Suitable candidates will plan and manage HPC systems and cloud application projects aimed at enhancing computing speed through high-capacity computational solutions.

This position is open at Qunova's research centers in South Korea, either in Daejeon or Seoul. The Technical Leader will work hand-in-hand with Qunova's multinational research team and collaborate with the world-renowned scientists in the Qunova-KAIST team, as well as with quantum hardware providers and drug development companies.

Responsibilities

- Develop a quantum computing platform and applications on quantum simulation and quantum AI.
- Devise a hybrid platform for quantum computing and HPC computing.
- Create and implement an in-house SDK environment for quantum and computational chemistry software developers.
- Supervise team members, including software, network, and system engineers.

Qualifications

- M.S. with min 5 years of experience in scientific computation and HPC platform development.
- Advanced knowledge of C++, Python, Julia, CUDA, MPI.
- Advanced experience with Tensor Flow, PyTorch, R, and other related AI tools.
- Experience with Schrödinger, Psi4, VASP, Gaussian, BIOVIA, GAMESS, OpenFMO, and other related software packages is a plus.
- Ability to work in a collaborative environment and a strong publication record.
- Demonstrated supervisory skills including managing teams and leading research projects in industry and/or academia.

Salary and Benefits:

- Competitive salary depending on level of experience (median salary: US\$120,000 per annum)
- Company stock options
- Fringe benefits including health insurance and retirement plan contributions
- Annual personal holiday plus national holidays, with flexibility to carry over
- Relocation allowance if applicable

Location: Daejeon or Seoul, South Korea

Contact: recruit@qunovacomputing.com