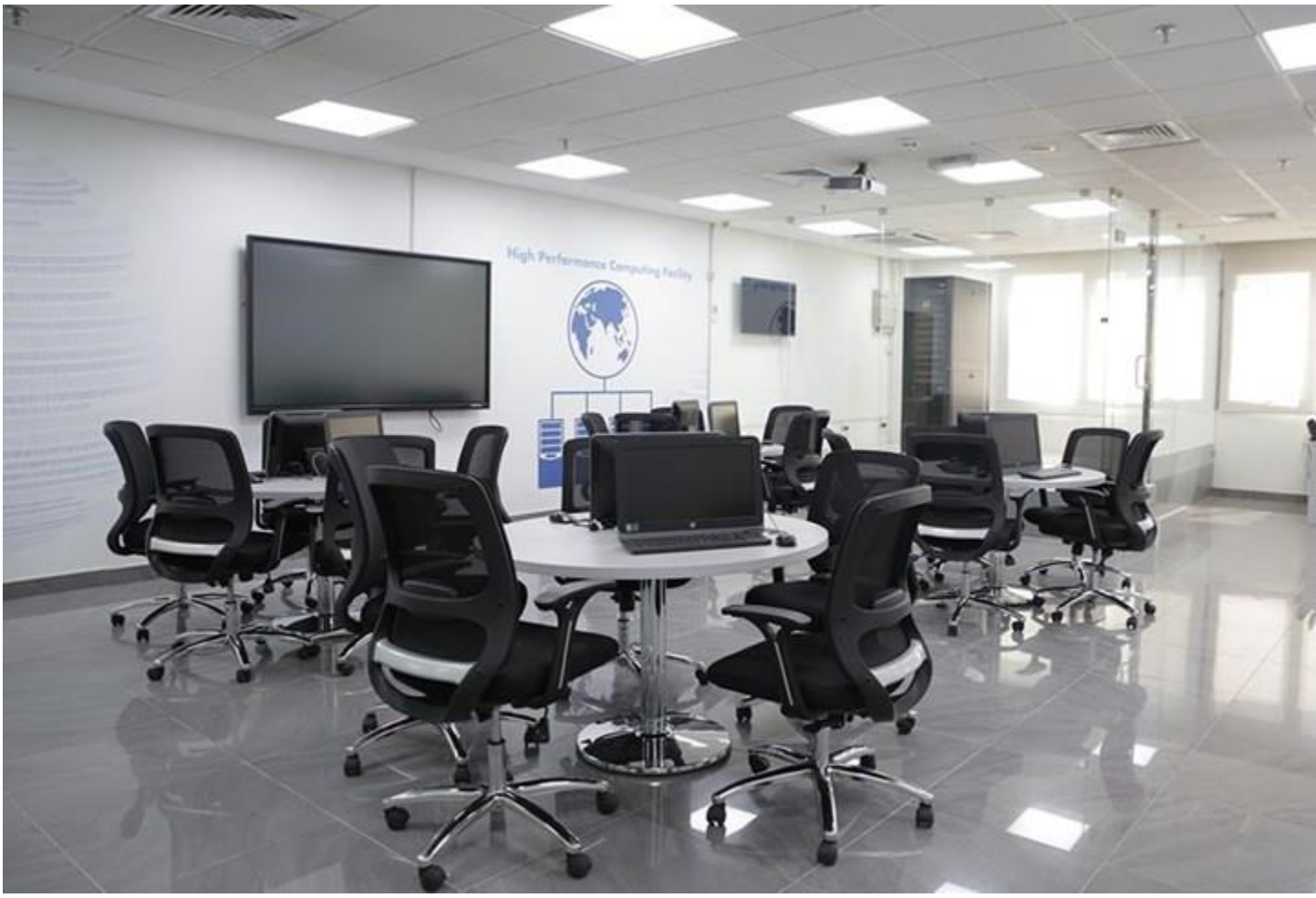
High Performance Computing



Computational resources represent a critical component of scientific research and engineering programs. Since its deployment in 2017, The High Performance Computing (HPC) Lab benefits both AUM students and faculty members who wish to carry out and solve big amounts of complex and/or repetitive calculations on a large amount of data, and wish to obtain faster

results. The HPC lab has enabled several research programs and students projects spanning across different applications in engineering, mathematics, particle physics, computational chemistry, big data and more.

- System: Phoenix
- Operating System: CentOS 7.4 (RedHat based)
- Job scheduler: SunGridEngine (SGE)
- CPU: 640 cores, Intel Xeon E5-2698 v3 2.3GHz
- Aggregated memory: 1.28 TB
- Peak performance: 23 TFLOPS
- GPU accelerator: NVidia Tesla K40C 12GB
- Interconnection: Mellanox 40 Gbps InfiniBand
- Software: ANSYS, Gaussian, Orca, Chemkin, MAGMA, Mathematica, SageMath, SAS, R, CPLEX, Autodock, Mininet, Mosel, LAMMPS, Garfield++, FLUKA, ROOT, etc.

For information and account request, please send an email to: engineering-research-group-unit@aum.edu.kw