



Argonne National Laboratory's Aurora Exascale System to Enable Advanced Research

Argonne National Laboratory's Aurora will be the nation's first Exascale HPC system built on Intel® Architecture.¹ With HPE and Intel, plus the support of the U.S Department of Energy, Aurora's performance is expected to exceed an exaFLOPS, which equals a billion-billion calculations per second. Aurora will feature several new Intel technologies including future Intel® Xeon® Scalable processors, future Intel Xe architecture-based GPUs and Intel® Optane™ persistent memory. The Argonne team will depend on the oneAPI programming model designed to simplify development on heterogeneous architectures. With its extreme scale and performance levels, Aurora will offer the scientific community the compute power needed for the most advanced research.

Products and Solutions

- [Intel® Xeon® Scalable processors](#)
- [Intel® Optane™ persistent memory'](#)
- [Intel® oneAPI Toolkits](#)

Industry

Government, Research

Organization Size

1,001-5,000

Country

United States

Partners

[HPE](#)

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¹ For more complete information about performance and benchmark results, visit <https://www.intel.com/content/www/us/en/customer-spotlight/stories/argonne-aurora-customer-story.html>