



# 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.<sup>1</sup> With HPE and Intel, plus the support of the U.S. Department of Energy, Aurora's performance is expected to exceed two exaFLOPS of double precision compute performance. Aurora will feature several new Intel technologies including 4th gen Intel® Xeon® Scalable processors, Intel® Data Center 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

[4th Gen Intel® Xeon® Scalable Processors](#)

[Intel® Data Center GPUs](#)

[Intel® oneAPI Toolkits](#)

## Industry

Government,  
Research

## Organization Size

1,001-5,000

## Country

United States

## Partners

HPE

## Learn more

[Case Study](#)

<sup>1</sup> 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>