

# Laboratory for Laser Energetics' New Supercomputer Helps Deliver Fusion Insights

The Laboratory for Laser Energetics (LLE) at the University of Rochester is a unique resource for the United States. It is one of the few facilities in the world where scientists are studying and experimenting with inertial confinement fusion (ICF) to harvest energy from the same process that powers stars. Nuclear fusion promises to provide clean energy from a nearly inexhaustible source for powering the future. The path to ICF starts with supercomputers to model the materials, the lasers, and the experiments themselves. The LLE acquired a system built by Dell Technologies with 4th Gen Intel® Xeon® Scalable processors, which will allow them not only to simulate experiments with more precision but also explore using machine learning and artificial intelligence (AI) to garner insight into how to harvest power from nuclear energy.

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