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NVIDIA and Oracle to Build US Department of Energy's Largest AI Supercomputer for Scientific Discovery

Bold US Investment of 100,000 NVIDIA Blackwell GPUs Kickstarts Era of Agentic AI-Powered Science at Argonne National Laboratory for Public Researchers

October 28, 2025



News Summary:

- › NVIDIA founder and CEO Jensen Huang and U.S. Secretary of Energy Chris Wright announce a landmark collaboration with Oracle to build the U.S. Department of Energy (DOE)'s largest AI supercomputer to boost scientific discovery.
- › Solstice system will feature a record-breaking 100,000 NVIDIA Blackwell GPUs to accelerate the DOE's mission of driving technological leadership across U.S. security, science and energy applications, plus an Equinox system to feature 10,000 Blackwell GPUs.
- › The new DOE systems at Argonne National Laboratory will revolutionize scientific discovery and dramatically accelerate productivity for research and development in America.

GTC Washington, D.C.—NVIDIA today announced a landmark collaboration with Oracle to build the U.S. Department of Energy (DOE)'s largest AI supercomputer to dramatically accelerate scientific discovery.

The Solstice system will feature a record-breaking 100,000 NVIDIA Blackwell GPUs and support the DOE's mission of developing AI capabilities to drive technological leadership across U.S. security, science and energy applications. Another system, Equinox, will include 10,000 NVIDIA Blackwell GPUs and is expected to be available in the first half of

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November 17, 2025



World's Leading Scientific Supercomputing Centers Adopt NVIDIA NVLink to Integrate Grace Blackwell Platform With Quantum Processors

November 17, 2025

TSMC-1033
TSMC Ltd.
IPR2025-01082

2026. Both systems will be interconnected by NVIDIA networking and deliver a combined 2,200 exaflops of AI performance.

The Solstice and Equinox supercomputers will be located at Argonne National Laboratory. They will enable scientists and researchers to develop and train new frontier models and AI reasoning models for open science using the [NVIDIA Megatron-Core](#) library and scale them using the [NVIDIA TensorRT™](#) inference software stack. These models will form the backbone of agentic AI workflows for scientific discovery.

Both AI supercomputers will support NVIDIA, Argonne and the DOE's research collaborations to develop agentic scientists, boosting R&D productivity and accelerating discovery enabled by public research dollars within a decade. Solstice will be built with the DOE's new public-private partnership model, including industry investments and use cases. This reflects the Trump Administration's commitment to securing America's leadership in AI and science.

"AI is the most powerful technology of our time, and science is its greatest frontier," said Jensen Huang, founder and CEO of NVIDIA. "Together with Oracle, we're building the Department of Energy's largest supercomputer that will serve as America's engine for discovery, giving researchers access to the most advanced AI infrastructure to drive progress across fields ranging from healthcare research to materials science."

"Winning the AI race requires new and creative partnerships that will bring together the brightest minds and industries American technology and science has to offer," said U.S. Secretary of Energy Chris Wright. "The two Argonne systems and the collaboration between the Department of Energy, NVIDIA and Oracle represent a new common sense approach to computing partnerships. These systems will be a powerhouse for scientific and technological innovation. Thanks to President Trump, we're bringing new computing capacity online faster than ever before and turning shared innovation into national strength."

"The Equinox and Solstice systems are designed to accelerate a broad set of scientific AI workflows, and we are collaborating with Oracle and NVIDIA to prepare thousands of researchers to effectively leverage the systems' groundbreaking capabilities," said Paul K. Kearns, director of Argonne National Laboratory. "This system will seamlessly connect to forefront DOE experimental facilities such as our Advanced Photon Source, allowing scientists to address some of the nation's most pressing challenges through scientific discovery."

"At Oracle, we are proud to partner with the Department of Energy to deliver sovereign, high-performance AI capabilities," said Clay Magouyrk, CEO of Oracle. "Our collaboration at Argonne, tapping into the power of OCI, will provide a critical resource to address the nation's most complex challenges and accelerate the next wave of scientific breakthroughs."

The AI supercomputers will serve as the foundation for a larger-scale collaboration across science, energy and national security to deploy next-generation infrastructure and further secure U.S. leadership in AI for decades to come.

Learn more about how NVIDIA and partners are advancing AI innovation in the U.S. by watching the [NVIDIA GTC Washington, D.C., keynote by Huang](#).



NVIDIA and SK Group Build AI Factory to Drive Korea's Manufacturing and Digital Transformation

October 30, 2025



NVIDIA and Samsung Build AI Factory to Transform Global Intelligent Manufacturing

October 30, 2025



NVIDIA and Hyundai Motor Group Team on AI Factory to Power AI-Driven Mobility Solutions

October 30, 2025

About NVIDIA

[NVIDIA](#) (NASDAQ: NVDA) is the world leader in AI and accelerated computing.

Certain statements in this press release including, but not limited to, statements as to: together with the DOE and Oracle, NVIDIA building the Department of Energy's largest supercomputer that will serve as America's engine for discovery, giving researchers access to the most advanced AI infrastructure to drive progress across fields ranging from healthcare research to materials science; expectations with respect to the DOE's mission of developing AI capabilities to drive technological leadership across U.S. security, science and energy applications; expectations with respect to the collaboration among NVIDIA, DOE, and Oracle and the AI systems to be built for the DOE; the benefits, impact, performance, and availability of NVIDIA's products, services, and technologies; expectations with respect to NVIDIA's third party arrangements, including with its collaborators and partners; expectations with respect to technology developments; and other statements that are not historical facts are forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange

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