



PIONEERING THE FUTURE OF ARTIFICIAL INTELLIGENCE

MITRE's Federal AI Sandbox drives next-generation artificial intelligence enabled applications for the federal government, accelerated by an NVIDIA DGX H100 SuperPOD.™

MITRE's Federal AI Sandbox provides a secure environment for federal agencies to experiment, prototype, and transition advanced AI solutions for mission needs. Built in partnership with NVIDIA and powered by an NVIDIA DGX H100 SuperPOD™ with 248 NVIDIA H100 GPUs and 9 PB of storage, the Sandbox gives MITRE and federal agencies the computing capacity to train and evaluate foundation models and other mission-specific AI systems. Located in Ashburn, Virginia, it supports work in areas such as weather modeling, benefits and service delivery, cybersecurity, aviation, and imagery analysis.

About the Sandbox

Location: Ashburn, VA

Launch Date: Q4 2024

Technology: Equipped with 248 NVIDIA H100 GPUs, 9PB of VAST high-performance storage, and high-speed network connectivity.

Purpose: To enhance AI research and development with increased computing power and train large language models for government-specific AI tasks.

Name: Judy, honoring the pioneering spirit and groundbreaking contributions of Judy Clapp, a trailblazer in computer science and engineering.

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MITRE's Federal AI Sandbox enables our government sponsors to incubate their use cases, determine mission value and accelerate their solutions into operation.

Beth Meinert, Senior Vice President and General Manager of MITRE Public Sector

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Revolutionizing Government Efficiency

MITRE's Sandbox advances consequential uses of AI across numerous fields, including national security, healthcare, transportation, and weather. By providing U.S. government agencies with the expertise and opportunity to tap into supercomputing capabilities, the Sandbox levels the playing field, enabling the training and testing of custom AI solutions. This initiative aligns with [America's AI Action Plan](#), enhancing services and addressing major challenges.

Cutting-Edge Technology

The Sandbox boasts an exaFLOP of 8-bit AI compute, capable of performing a quintillion math operations per second. This immense computational power supports the development of AI tools, including generative AI, multimodal perception systems, and reinforcement learning decision aids. The Sandbox also hosts managed AI services, simplifying experimentation at the AI frontier. It is designed to implement best practices for AI training.

Join the AI Revolution

All federal sponsors of MITRE have access to this transformative platform. Interested parties are invited to collaborate and explore how AI can solve complex governmental issues. The Federal AI Sandbox has been training foundation models and hosting experimental use cases and AI services since 2024. It is approved for sensitive, Controlled Unclassified Information (CUI). Initial use cases include:

- Improving high-resolution weather modeling and hazard planning
- Simplifying government systems for providing benefits and services
- Helping cybersecurity experts defend critical infrastructure and manufacturing
- Scaling AI to improve imagery understanding
- Understanding aerospace language

Shape the Future with Us

This initiative turbocharges the U.S. federal government's AI efforts, driving innovation and efficiency across the federal landscape. Join us in this exciting opportunity to redefine AI capabilities and transform government efficiency, adeptly processing diverse data and improving decision-making capabilities to pioneer the future of AI innovation. NVIDIA, in partnership with MITRE, provides periodic training and workshops. The Sandbox includes licensing for NVIDIA's full AI software suite, featuring 450+ domain-specific SDKs.

For more information and to get involved, please contact MITRE's AI team at AI@mitre.org. Together, we can shape the future of AI and unlock its incredible potential for federal mission impact.



The Federal AI Sandbox offers a secure and dynamic space for experimenting with and deploying advanced solutions customized to specific needs, poised to transform the way government agencies utilize AI.

[Deborah Youmans](#), Vice President,
Chief Information Officer, MITRE

AI has immense potential to transform government's service to its citizens. The Federal AI Sandbox will harness AI for everything from improving resilience of critical infrastructure to making Medicare sustainable.

[Charles Clancy](#), Senior Vice President
and General Manager, MITRE Labs,
and Chief Technology Officer



Through our public-private partnerships and federally funded R&D centers, we work across government and in partnership with industry to tackle challenges to the safety, stability, and well-being of our nation.

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