



MITRE is investing in a massive AI supercomputer to power a new federal AI sandbox.

AI has the potential to drive transformational advances in fields like healthcare, cybersecurity, transportation, finance, climate, and national security—but to harness this impact the nation must accelerate safe and secure prototyping of new AI solutions built around government datasets.

Today, few federal agencies have adequate access to large-scale computing infrastructure. This situation inhibits public sector innovation by limiting the creation and evaluation of customized AI tools like large language models (LLMs) similar to ChatGPT. MITRE's new flagship AI supercomputer will streamline and expand government access to the high-end computing that drives modern AI.

The NVIDIA DGX SuperPOD system powering the sandbox is capable of an exaFLOP of 8-bit AI compute, meaning it performs a quintillion math operations each second to train and deploy custom LLMs and other AI solutions at scale.

Federal agencies can gain access to the benefits of MITRE's AI sandbox through existing contracts with any of the six federally funded research and development centers that MITRE operates. The sandbox, which launches in late 2024, will substantially augment MITRE's AI Platform—increasing compute power by two orders of magnitude.

An AI supercomputer at this scale is ideal for training new, government-specific large frontier AI models, including LLMs, other generative AI, machine vision and multimodal perception systems, and reinforcement learning decision aids. MITRE continues to invest in innovation and resources that enable our experts, often in collaboration with government, industry, and academia, to solve complex problems in the public interest.

For information about MITRE's AI expertise and capabilities, contact ai@mitre.org.

To realize the incredible potential of AI within the federal government, a secure sandbox environment with significant computational power is needed for prototyping, training, and testing complex AI models.

MITRE's mission-driven teams are dedicated to solving problems for a safer world. 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.