Executive Order 14363

Launching the Genesis Mission

November 24, 2025

Overview

The Trump Administration released *Launching the Genesis Mission*, to accelerate transformative scientific discovery using AI. Announced on November 24th, 2025, the Executive Order reclassifies federal scientific compute and data infrastructure as strategic national assets due to their critical role in maintaining U.S. leadership in AI-enabled science, national security, and energy innovation.

The order is comparable to the Manhattan Project scale science initiative that will be overseen primarily by the Department of Energy to centralize the world's largest federally funded scientific dataset ecosystem into a secure platform capable of training foundation models, deploying research-driven AI agents, and accelerating breakthroughs in critical domains.

Leadership and Ownership

The following bodies are given primary mandates:

- The Secretary of Energy Chris Wright (or an appointed senior political lead) is designated as the **implementation owner** within the Department of Energy.
- The Assistant to the President for Science and Technology (APST) Michael Kratsios will lead overall coordination across agencies through the **National Science and Technology Council (NSTC)**.

Platform Requirements & Capabilities

The **American Science and Security Platform** will act as the nation's centralized AI-science infrastructure. The Secretary of Energy is required to stand up and operate the **American Science and Security Platform**, which must integrate, to the maximum extent practicable:

Capability	Description
Compute & Cloud Integration	• High-performance **on-prem DOE national lab supercomputers** • Secure **AI-model-training cloud environments** • Co-located infrastructure such as **substations, fiber, and edge compute hubs**

AI Modeling & Research Agents	• **Domain-specific** scientific foundation models (biotech, materials, energy, etc.)
	• Research agents capable of:
	  ▪ Exploring design spaces
	  ▪ Automating research workflows
	  ▪ Generating hypotheses
	  ▪ Testing experimental outcomes
	  ▪ Supporting autonomous manufacturing and experimentation

Security & Supply Chain Standards	• Compliance with federal cybersecurity, classification, IP protections, and data-management best practices. • Rigorous vetting protocols for all platform users, collaborators, and private-sector partners

What Does This Signal?

This signals that AI has moved from experimentation into national strategy, where scientific compute and federal datasets are being treated as strategic assets to build on rather than siloed resources to analyze. The Administration is showing clear federal intent to consolidate infrastructure under one authoritative owner in DOE, eliminate duplication across agencies, and operationalize AI throughout the full R&D and national security pipeline.

It emphasizes that the next wave of federal AI will prioritize **scalable compute orchestration**, **secure model training environments**, **hypothesis-testing AI agents**, **supply-chain rigor**, and **measurable national return on investment** that will be evaluated by acceleration in discovery velocity, compressed innovation cycles, and compounding mission impact, not extended pilots. **The AI infrastructure era is here, and it's strategic, unified, and accelerated.**

Direction to Government

Federal agencies are mandated to:

- Align their internal AI-related programs and scientific workflows with the Mission
- Integrate approved datasets into the Platform in a way that avoids duplication and promotes interoperability
- Participate in funding/prize competitions to incentivize private-sector scientific AI adoption
- Deploy R&D fellowships, internships, and AI-science apprenticeships in partnership with DOE national labs

The Genesis Bill signals a major federal pivot:
AI is no longer viewed as a commercial or IT accessory, but as **a core engine of national scientific discovery, defense capability, and energy dominance**.

Industry Opportunity

For AI vendors, contractors, research institutions, and integrators, this order provides:

- Predictable federal support for **unified scientific model training**
- Institutional access pathways for **training** on federally curated scientific datasets
- Partnership frameworks including **CRADAs** and **model/data-use licensing**
- **Accelerated commercialization pathways** for **AI-generated scientific IP**
  (subject to vetting, export control, and cybersecurity compliance)
- More structured engagement between:
  - Computing vendors
  - Semiconductor suppliers
  - Cloud partners
  - Hypothesis-testing AI firms
  - Autonomous manufacturing AI providers

Vendors Should Expect:

- New model onboarding standards
- **SBOM** and **supply-chain** review requirements for platform access
- A surge in public-private AI science collaboration opportunities
- 2026 investment emphasis on **highly available, secure, mission-critical scientific AI systems**

In short, the bill removes long-standing barriers to unified federal scientific AI development pipelines and signals the U.S. Government's sustained investment in **AI-accelerated scientific infrastructure at national scale**.

Timeline

Date	Focus & Key Provisions
Within **60 days**	Participating agencies must submit: A list of **20+ priority science and technology challenges** spanning: • Advanced Manufacturing • Biotechnology • Critical Materials • Nuclear Fission & Fusion • Quantum Information Science • Semiconductors & Microelectronics
Within **90 days**	DOE must: • Identify federal compute, storage, and networking resources that can support the Mission • Assess any required infrastructure enhancements and partnership opportunities
Within **120 days**	DOE must: • Curate and digitize a first corpus of standardized datasets and model-ready AI assets • Map data provenance and metadata standards for interoperability
Within **240–270 days**	DOE must: • Evaluate R&D readiness across national labs for AI-orchestrated experimentation • Demonstrate an initial operating capability of the Platform supporting at least one high-impact national challenge
Annually	DOE must: • Update this list based on progress, emerging priorities, and national needs

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