
Artificial Intelligence and Quantum

Office of Artificial Intelligence and Quantum
(\$K)

FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted
-	-	1,200,000	+1,200,000

Mission

The Office of Artificial Intelligence and Quantum’s (AIQ) mission is to oversee the Department’s Genesis Mission through collaboration and coordination of federal government, national laboratories, and industry in support of the U.S. AI and quantum research investments. It will serve as the program office responsible for Genesis Mission delivery, aligning investments, developing workforce, optimizing shared infrastructure, and tracking performance. AIQ will work closely with NNSA, the Office of Science, other DOE Program Offices and with the Office of Strategy and Technology Roadmaps to carry out these functions.

Overview

AIQ will support multiple AI supercomputers at Argonne¹ and Oak Ridge National Laboratories² and is also responsible for the Genesis Mission delivery, aligning investments, developing workforce, optimizing shared infrastructure and tracking performance. The Genesis Mission is a national initiative that aims to build the world’s most powerful scientific platform to accelerate discovery, strengthen national security, and drive energy innovation. The Genesis Mission will mobilize the Department of Energy and its 17 national laboratories, build on core capabilities, infrastructure, and laboratory assets from the Office of Science and across DOE, and form an integrated national discovery platform that connects the world's best supercomputers, experimental facilities, AI systems, and unique datasets across every major scientific domain. The challenges addressed by Genesis Mission span DOE’s broad mission including energy dominance, scientific discovery, and national security. The goal of the Genesis Mission will be to double the productivity and impact of American research and innovation within a decade.

The FY 2027 Request for AIQ is \$1,200 million to support implementing the Administration’s objectives to advance bold, transformational leaps in U.S. science and technology (S&T) in AI and quantum and ensure America remains the global S&T leader for generations to come, which progressing toward scientifically relevant quantum computation. The FY 2027 Request will support the acquisition of supercomputers, equipment, infrastructure and equipment upgrades, and other activities that support public-private partnerships at the national laboratories. These partnerships and other efforts under Genesis Mission supported by other programs, taken together, will form an integrated infrastructure for scientific exploration—an intelligent network capable of sensing, simulating, and understanding nature at every scale.

The Genesis Mission reinforces American leadership in critical emerging technologies, including quantum information science, AI, and classical supercomputing. Under the Genesis Mission, the AIQ will serve as both a national accelerator for innovation and a proving ground for the next generation of AI and quantum and robotics technologies. It will deliver capabilities that enable the DOE to continue to empower researchers to solve the hardest scientific challenges and accelerate discovery from years to months.

¹ <https://www.anl.gov/article/argonne-expands-nations-ai-infrastructure-with-powerful-new-supercomputers>

² <https://www.energy.gov/articles/energy-department-announces-new-public-private-partnership-model-two-supercomputers>

**Office of Artificial Intelligence and Quantum
Funding by Budget Control (\$K)**

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request	FY 2027 Request vs FY 2026 Enacted	
				\$	%
Office of Artificial Intelligence and Quantum	-	-	1,200,000	+1,200,000	N/A

Highlights of the FY 2027 Request

In FY 2027, AIQ will concentrate on:

- Provide Department-level strategy for integrating classical high-performance computing, AI, and quantum computing capabilities.
- Facilitate public-private partnerships to support science and technology growth by enhancing infrastructure, funding equipment upgrades, and enabling partnerships that deliver new AI supercomputing capabilities.
- Support the deployment of multiple AI supercomputers.
- With the Office of Science, explore incentive-based competitions to support the demonstration of scientifically relevant quantum computers.

**Activities and Explanation of Changes
(\$K)**

FY 2026 Enacted	FY 2027 Request	Explanation of Changes FY 2027 Request vs FY 2026 Enacted
AIQ	1,200,000	+1,200,000
No funding enacted.	The Request will support DOE mission on oversight on artificial intelligence and quantum. Funding will support requirements for multiple AI supercomputers .	Funding will support the facility operations of new supercomputers at the labs and infrastructure improvements.

DEPARTMENT OF ENERGY
Funding by Site Detail
TAS_NEW_AIQ - Artificial Intelligence and Quantum - FY 2027
(Dollars in Thousands)

	FY 2025 Enacted	FY 2026 Enacted	FY 2027 Request
Washington Headquarters			
Artificial Intelligence and Quantum	0	0	1,200,000
Total Washington Headquarters	0	0	1,200,000
Total Funding by Site for TAS_NEW_AIQ - Artificial Intelligence and Quantum	0	0	1,200,000