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Intel Applauds Bipartisan Congressional Effort to Accelerate Quantum Computing Research

SANTA CLARA, Calif.--(BUSINESS WIRE)-- **What's New:** This week, the U.S. Senate is reviewing its version of the National Quantum Initiative Act (S. 3143), a bipartisan bill to create a 10-year coordinated federal program to accelerate quantum research and development for the economic and national security of the United States. The bill aims to ensure U.S. leadership in quantum information science by supporting research and development, improving interagency planning and coordination, promoting public-private partnerships, and promoting the development of international standards.

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Intel's director of quantum hardware, Jim Clarke,

"When it comes to quantum computing research, we're at mile one of a marathon. The U.S. has long been at the cutting edge of technology; a fact that has propelled our progress for decades. As nations around the world race to lead in quantum information science, the U.S. will require collaboration of industry, academia and the federal government to keep pace. The National Quantum Initiative Act is a great step forward, and Intel applauds the bipartisan leadership in Congress on their progress."
-- Jim Clarke, director of quantum hardware, Intel Corporation

Why It's Important: The National Quantum Initiative Act will ensure the United States remains competitive in a global race to build quantum technologies.

Quantum computing is an exciting new computing paradigm with unique problems to be solved and new physics to be discovered. Academia, governments and companies are racing to advance quantum science given its potential to solve problems beyond the reach of conventional

holds a 17-qubit superconducting test chip. (Credit: Intel Corporation)

computers. For example, quantum computers may simulate nature to advance research in chemistry, materials science and molecular modeling.

Intel's Context: In 2015, Intel initiated a significant investment in quantum research. Today, Intel is making fast progress toward developing commercially viable quantum computing systems, including the introduction of a 49-qubit superconducting test chip called "Tangle Lake."

Federal Context: This week's progress in the Senate follows progress in the U.S. House of Representatives on its version of the bill, H.R. 6227. In June, the U.S. House Science, Space, and Technology Committee unanimously approved the legislation.

More Context: Quantum Computing at Intel

About Intel

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