



Canada's National Quantum Strategy

Quantum science is at the leading edge of research and innovation and holds enormous potential for commercialization.

This emerging field will transform how everything from life-saving drugs to next-generation batteries are designed and developed, and Canadian scientists and entrepreneurs are well positioned to take advantage of these opportunities.

The Government of Canada launched the [National Quantum Strategy](#) in January 2023 to support Canada's quantum sector and solidify Canada's leadership in this fast-growing field. The strategy will amplify Canada's strength in quantum science and supply of talent, grow its quantum technologies and companies, and advance quantum research and commercialization in Canada.

Backed by an investment of \$360 million, the National Quantum Strategy is driven by three missions: computing hardware and software; communications; and sensors. Efforts under these missions are intended to:

- Make Canada a world leader in the continued development, deployment and use of quantum computing hardware and software to the benefit of Canadian industry, governments and citizens;
- Ensure the privacy and cybersecurity of Canadians in a quantum-enabled world through a national secure quantum communication network and a post-quantum cryptography initiative; and
- Enable the Government of Canada and key industries to be developers and early adopters of new quantum sensing technologies.

These missions will be advanced through investments in three pillars: research, talent, and commercialization.

Canada is a leader in quantum science, having invested more than \$1 billion since 2012, including in several universities and companies, some of which have pioneered world firsts.