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Canadian Universities and Quantum Workforce: Insights from UCalgary's Quantum Computing Program

Wednesday 29 May 2024 11:00 (30 minutes)

As quantum technologies advance, they hold the potential to revolutionize global industries, offering unmatched computational power, secure communication, and cutting-edge sensing capabilities. With this rapid evolution comes a surge in demand for proficient quantum professionals, leading Canadian universities to pioneer inventive education and training initiatives. This presentation explores the quantum education landscape across Canadian universities, highlighting their crucial role in shaping the future quantum workforce. This presentation will spotlight the Master of Quantum Computing program at the University of Calgary as a case study. This professional master's degree equips students with a deep understanding of quantum computing, enabling them to evaluate cutting-edge research, commercial applications, and business cases. Through a blend of coursework, research projects, and group collaborations, students develop original insights and critical thinking skills essential for professional quantum applications. Moreover, the program integrates practical experiences through professional internships, where students apply their knowledge to real-world business challenges. Research internships further enable students to undertake applied projects, bridging theoretical understanding with practical applications in commercial and public sectors.

By examining initiatives like the Master of Quantum Computing program, this talk aims to provide valuable insights into the evolving quantum education landscape in Canada and its profound implications for shaping the future quantum workforce.

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