

Talk Title: Preparing for Quantum 2.0

Biography: Shohini Ghose wanted to be an explorer like Rakesh Sharma, the first Indian to go to space. She hasn't made it to space yet, but she did become an explorer of the quantum world as a physics Professor at Wilfrid Laurier University and the Chief Technology Officer of the Quantum Algorithms Institute in Canada. Her research has led to foundational advances in quantum computing and communication. She is a member of Canada's Quantum Advisory Council overseeing the National Quantum Strategy and she serves on UNESCO's Basic Sciences Advisory Board. Shohini has been a long-time advocate for diversity and inclusion in science. She is the founding Director of Laurier's nationally recognized Centre for Women in Science (WinS) and she holds one of 5 federally-funded Chairs for Women in Science and Engineering. Her awards include selection to the College of the Royal Society of Canada and a TED Senior Fellowship, and her online talks have received over 5 million views. Shohini's new book, *Her Space, Her Time*, celebrates women scientists from around the world who transformed physics and astronomy. She still dreams of going to space.