



MEDIA BACKGROUNDER – June 16, 2025

The Lethbridge Super Quantum Hub – What It Is, Why It Matters

What's Happening

Lethbridge has just launched Alberta's first **community-based Quantum Hub**, located at Tecconnect and powered by **SuperQ Quantum's** Super platform. This is one of the first places in Canada where everyday businesses and organizations—not just universities or major tech companies—can access quantum-powered computing tools to solve real problems.

What Is Quantum Computing, in Plain Terms?

Most computers today solve problems one step at a time. Quantum computers work differently—they explore many possibilities at once. This makes them useful for **really complex problems**, like:

- Finding the most efficient delivery route
- Scheduling staff in a way that cuts overtime
- Modeling risk in financial or climate systems
- Forecasting the direct and indirect impact of trade tariffs
- Synthesizing the best molecules for drugs and manufacturing applications

Think of it as a **supercharged problem solver**—especially for tasks with lots of moving parts.

Why Is This a Big Deal for Lethbridge?

Until now, using quantum technology required big budgets, high-level scientists, and access to labs. The Quantum Hub changes that. Businesses in Lethbridge can now **try out this powerful technology**—no PhD required. The Hub makes the powerful Super platform accessible to businesses and researchers:

- It works in plain language. You describe your business challenge, and the system figures out the best computing tools to use (quantum, AI, or high-performance traditional computing).
- It's available locally. You don't have to fly to Toronto or Silicon Valley to access it.
- It's guided. Local teams at Economic Development Lethbridge (EDL) and SuperQ are offering workshops, pilots, and training to help companies explore what's possible.

Who Might Use This?

The Quantum Hub is especially relevant for industries with complex decision-making:

- **Agriculture** – modeling crop cycles, optimizing water use

- **Transportation & logistics** – planning delivery or service routes
- **Manufacturing** – optimizing scheduling or equipment use
- **Finance or insurance** – modeling risk or improving security
- **Post-secondary or STEM education** – offering hands-on exposure to emerging tech

What Kind of Access Will Local Businesses Have?

The hub offers different entry points:

- **Introductory sessions** for anyone curious about what quantum computing does
- **Workshops** for business and tech professionals
- **Custom pilot projects** for businesses wanting to try quantum solutions for specific challenges
- **Youth and education programs** for future workforce development

Who's Behind It?

- **SuperQ Quantum** is a Canadian quantum and supercomputing company led by Dr. Muhammad Ali Khan, a deep tech expert with experience in AI, blockchain, and quantum. SuperQ's Super platform blends quantum and classical computing and can be accessed using natural language.
- **Economic Development Lethbridge (EDL)** is supporting the hub to further position our city as a regional innovation leader.
- **RINSA (Regional Innovation Network of Southern Alberta)** is also involved in outreach, training, and ecosystem development.

Why is this News?

- This is a **first-in-Canada regional model**: Quantum is usually locked away in labs—this opens it to the public.
- It's a **"ChatGPT moment" for quantum and supercomputing**: just like ChatGPT made AI accessible, this platform makes quantum useful to everyday problem solvers.
- It's a **homegrown Alberta tech story** with global relevance.

For More Info or follow up story

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