

Quantonic Legacy Innovations

Desktop Hybrid Photonic-Classical Computing Platform

Overview

Quantonic is developing Australia's first desktop-scale quantum-photonic hybrid system — bringing enterprise-level quantum simulation to universities, startups, and researchers without cryogenic infrastructure or cloud dependency.

The Challenge

The quantum computing market is projected to grow from US\$1.44B (2025) to US\$16.44B (2034). Yet Australian institutions face critical barriers: expensive cryogenic requirements, cloud service dependency, and lack of affordable hybrid integration.

Our Solution: The QL-Series

- Hybrid Architecture:** Classical GPU/FPGA accelerators working with photonic quantum processors
- Room Temperature:** No cryogenic infrastructure required — operates at standard lab conditions
- Multi-Tenant:** Support for 100+ concurrent users with educational curriculum integration
- Desktop Scale:** Compact form factor designed for university labs and research facilities

Target Markets

Universities	Startups	Research Labs
Quantum education 100+ concurrent students Curriculum integration	Algorithm development No cloud dependency Predictable costs	VQE & quantum chemistry Many-body simulations Hybrid algorithms

Indicative Pricing (Subject to Change)

Option	Price	Details
Institutional Trial	FREE	90-day evaluation, up to 10 users
Monthly Subscription	\$2,000 AUD/mo	Full access, 100+ users, cancel anytime
Outright Purchase	\$50,000 AUD	QL-50 unit, perpetual license, installation

Current Status

- ✓ Patent application filed (AU 2025/2025234266)
- ✓ Core architecture designed and documented
- ✓ Company registered in Melbourne, Victoria
- Prototype development in progress
- Seeking academic pilot partners

Founder

Amit Bhardwaj — 15+ years enterprise systems experience including EDI integration, ERP systems (Pronto), and complex data architecture at scale. B.IT from University of Ballarat. Previously led retail systems at Total Tools and enterprise implementations at SPS Commerce.

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Patent Pending: AU 2025/2025234266