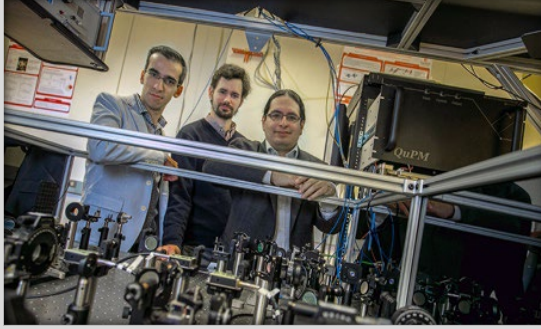




Qunnect - Executive Summary

MISSION

Founded in 2017 by a team of quantum physicists from Stony Brook University, Qunnect's mission is to commercialize a first-in-class product suite to enable real-world, scalable, quantum networking.



LICENSING

Qunnect has an exclusive option to license innovations generated by the parent lab through July 2023.

STRUCTURE

Delaware C-corporation (Feb 2020)

FINANCIAL SUPPORT

- \$800k Seed Round closed Q4 2019
- \$3.78M Federal Grants to date
- \$685k+ Bridge Round (open now)

MANAGEMENT TEAM

- Noel Goddard, PhD - CEO
- Mehdi Namazi, PhD - CSO
- Mael Flament, MS - CTO & Eng. Lead

DIRECTORS

- Robert Brill, PhD - Chairman;
Seasoned Technology Investor & CEO
- Mark Tolbert, MBA
President Toptica Photonics, USA
- Eden Figueroa, PhD
Director of Quantum Information Labs at Stony Brook Univ. & Brookhaven National Lab

RESIDENCE

- Bldg 77, Brooklyn Navy Yard, NYC

CONTACT INFORMATION

noel@quconn.com
www.qunnect.inc

PROBLEM

- Quantum communications technologies are transitioning from lab to market, but the full promise cannot be realized without addressing the challenges of field deployment, infrastructure compatibility, and scalability.
- First generation, fiber-based, quantum communications technologies are inherently distance-limited.

QUNNECT'S SOLUTION

- Qunnect is building a first-in-class product suite of quantum devices and quantum-support devices engineered to operate at room temperature, with compatibility to existing telecom fibers, and minimal maintenance.
- The product suite, called a Quantum Repeater, will enable a new type of communication protocol, based on entanglement swapping, supporting long distance quantum-secure communication.

OPPORTUNITY

- Quantum communications is an emerging industry. Securing early adopters is an opportunity to become a standard in the field, assuring early exclusivity through strong intellectual property filings.

MARKETS

- Commercial 1st generation technologies supporting key distribution protocols (QKD) amassed revenue >\$200M in 2020 and are projected to grow to \$4B by 2029.
- The early market will be dominated by defense, government, and telecom researchers developing communication protocols and defining standards.
- Downstream markets include finance, data storage and critical infrastructures.

COMPETITIVE ADVANTAGE

- Qunnect is building devices engineered for deployment on existing fiber infrastructure, housed in standard server rack encasements, with no requirements for extreme cooling or vacuum.
- 1st Mover - Qunnect is the first company, globally, to commercialize a quantum memory (Q2 2021), the key to enabling the next generation of quantum communication protocols.

PRODUCT SUITE

Quantum Devices

- Quantum Memory (**Qu-Mem**) - enables on-demand qubit storage and release for synchronization of transactions on the network
- Quantum Source (**Qu-Source**) - creates qubits for use in the network

Quantum Support Devices

- Auto Polarization Compensator (**Qu-APC**) - preserves qubit fidelity in standard fibers
- Universal Frequency (**Qu-Lock**) and Timing (**Qu-Sync**) standards
- Quantum Swapping Station (**Qu-Swap**) - performs entanglement swapping transactions

FIELD TESTING

- Qunnect generates value through performance testing on fiber testbeds, which informs design improvements.