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[Qatalyst Wins over D-Wave in Los Alamos National Labs Bake Off](#)

Los Alamos National Labs (LANL) compared the optimization power of Qatalyst to D-Wave's constrained optimization solver as part of their ongoing quantum evaluations. The results showed that Qatalyst (aka Mukai) outperforms the Ocean qbsolv solver for all calculations in the present work, both the ground and excited state calculations.

LANL compared the performance of two implementations of solver software: the original open-source qbsolv which is a part of the D-Wave Ocean tools and a new Qatalyst (Mukai) QUBO solver from QCI. The comparison was done for solving the electronic structure QUBOs problem and was implemented in a classical mode (Tabu search techniques.)

Learn more about the QCI and LANL partnership [here](#), or [click here](#) to read the report.

[QCI Launches Global Partner Program](#)

A key strategy to expand QCI's reach and range, and increase Qatalyst users, is through partnerships with qualified industry partners. These partners have established relationships with enterprise customers who want to explore the value of quantum computing, yet do not want to invest in the high cost of quantum programming expertise. QCI's partners share the same focus; they want to help their customers create a path to quantum, yet don't want to risk the same high investments, given the new quantum paradigm. Qatalyst eliminates the risk for both partners and their customers.

The company launched the QCI partner program, featuring a European partner, [SETmovation](#). They are a recognized technology leader focused on the intersection of science and advanced emerging technologies. QCI is actively working with SETmovation to offer their customers in government, finance and supply chains a lower risk, higher impact path to quantum.

Learn more about the partner program [here](#).

[QUBT University Teaches the Next Generation a Better Path to Quantum with Qatalyst](#)

Educating the next generation is always key to successfully launching innovative technologies. In the case of quantum computing, QCI has an even more powerful opportunity. The market is suggesting that investing to train quantum experts to code complex, high risk and costly quantum software is the best approach. This is analogous to analog device coding approaches from the far distant past.

Qatalyst is far ahead of this approach. Why? Qatalyst eliminates the need for quantum expertise, empowering a variety of users to access and use the power of quantum computers. Instead of being left behind, today's subject matter experts can begin to take advantage of quantum inspired optimization for their current complex computations, without any need for expensive training, or investment in hard-to-find quantum experts to define and code this low level quantum programming.

QUBT University begins this semester with groups from leading universities around the U.S. The offering was oversubscribed within 48 hours of the company's announcement, which validates the interest in, and motivation around, quantum computing. QCI will share this course, and expand it, every semester in the future, reaching out to more and more advanced physics, quantum and math students who will fuel the next wave of Qatalyst user growth.

Read the release [here](#).

QCI and IPQ Partner to Increase the Success Rate of Clinical Trials

The average drug discovery project takes over 10 years and costs in excess of a billion dollars. Yet only 15% of developed drugs actually pass the clinical trial stage. Qatalyst can help change this dynamic.

QCI partnered with [IPQ Analytics, LLC \(IPQ\)](#), a life sciences and healthcare analytics innovator, to leverage Qatalyst and its community detection abilities to develop a new breed of solutions for improved diagnostics and clinical trial outcomes.

The partnership offers IPQ consultants and experts early access to Qatalyst community-detection technology of QGraph. The resulting "next generation phenotypes" (NGP) will be used to "re-diagnose" patients in failed clinical trials to identify responsive patient subgroups.

The project also focuses on enhanced diagnostics to reduce unnecessary testing and ineffective patient treatment, to enhance clinical decision support for earlier, more accurate diagnoses and improved patient management and to optimize payor reimbursement guidelines.

Through the partnership, IPQ will analyze real world data to generate novel temporally-defined disease models by combining its unique top-down knowledge graph representation of the patient journey with QCI's quantum-powered community detection technology.

Read more about the partnership [here](#).

Robert Liscouski Discusses QCI with Scott Becker

QCI's CEO stopped by Scott Becker and the Private Equity Podcast to share insights about his entrepreneurial journey, how he built the QCI business and a lot more.

[Click here](#) to listen in.

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