

# QGI (Quantum General Intelligence) Introduces Quantum Algorithm Engine for Real-World Production AI Systems

*QGI positions the QAG Engine as foundational infrastructure — a reasoning layer for AI systems, extending beyond retrieval toward deterministic decision.*

SAN DIEGO, CA, UNITED STATES, April 21, 2026 /EINPresswire.com/ -- [Quantum General Intelligence, Inc. \(QGI\)](#) today announced Q-Prime, a quantum-structured embedding model, and introduced the public preview of the QAG Engine (Quantum-Augmented Generation) — a reasoning system powered by quantum algorithms, designed for real-world enterprise AI applications where correctness, traceability, and control are required.

## Quantum Algorithms Applied to Enterprise AI

QGI brings quantum algorithms into production environments by applying the mathematical framework of quantum mechanics — including Hilbert-space representations, superposition, and interference — on classical GPU infrastructure.

Unlike experimental quantum hardware systems, QAG operates today on NVIDIA GPUs, enabling immediate deployment across enterprise workloads.

## From Retrieval to Reasoning in Real Applications

Traditional AI systems rely on Retrieval-Augmented Generation (RAG), which introduces limitations in real-world scenarios due to:

- Fragmented document chunking
- Incomplete retrieval
- Hidden contradictions



Sam Sammane CO-FOUNDER OF QGI

Lack of verifiable reasoning

The QAG Engine replaces retrieval-centric pipelines with a reasoning-first approach based on quantum-structured representations and deterministic signal processing.

Quantum-Structured Reasoning Engine

At the core of QAG is Q-Prime, which encodes enterprise data into a quantum-structured hypergraph, preserving relationships and dependencies lost in conventional embeddings.

This structure is processed through QGI's Hilbert-Space Compacting (HSC) layer, producing interpretable reasoning signals:

Conflict  
Dependency  
Coverage  
Coherence  
Redundancy  
Topology



CEO Dain Ehring: QGI is building neurosymbolic quantum general intelligence for decisions that actually matter.

These signals enable AI systems to reason over complex knowledge before generating outputs.

Real Applications Across Enterprise Systems



We're not waiting for quantum computers. This is the first practical quantum embedding model that runs on GPU infrastructure—reasoning over complex, structured knowledge for Enterprise buyers”

*Dr. Sam Sammane*

The QAG Engine is designed for immediate use in real-world environments, including:

- Financial services — underwriting, risk evaluation, compliance
- Healthcare — clinical decision support, structured medical reasoning
- Legal systems — policy analysis, contract reasoning
- Regulatory operations — audit, reporting, and enforcement workflows
- Enterprise AI systems — knowledge platforms and decision

engines

Additional applications include:

Persistent AI agent memory  
Long-context reasoning in enterprise workflows  
Multi-agent coordination and decision orchestration

### An Engine, Not Just a Model

QGI positions the QAG Engine as core infrastructure for enterprise AI systems, delivering:

Structured reasoning over enterprise knowledge  
Deterministic signal generation for decision support  
Traceable and auditable inference  
Versioned knowledge and reproducible outputs

LOGO QGI PNG



“We are applying quantum algorithms to real enterprise systems today,” said Dr. Sam Sammane, CTO and Founder of QGI.

“The QAG Engine is designed to move AI from probabilistic outputs to structured, reliable reasoning.”

### Deployment on Classical Infrastructure

Q-Prime and QAG operate on classical GPU systems using NVIDIA CUDA-Q and cuTensorNet, delivering interactive performance without requiring quantum hardware.

### Availability

Public preview: available now via application-based access

General availability: June 21, 2026

Commercial licensing: Startup, Growth, Enterprise, OEM tiers

OpenRouter availability: planned for May 2026

### About QGI

Quantum General Intelligence, Inc. (QGI) develops reasoning-first infrastructure for enterprise AI systems, bringing quantum algorithms into real-world applications.

The platform includes:

Q-Prime — quantum-structured embedding model  
QAG Engine — reasoning engine for enterprise AI  
Neural Symbolic Agents — execution and orchestration layer

Headquartered in Wilmington, Delaware, with operations in San Diego, California, QGI is led by CEO Dain Ehring and CTO & Founder Dr. Sam Sammane.

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