



Quantum Computing Software Platforms

Key offerings enabling enterprises to build next-generation applications on quantum technology platforms

2025 CONSTELLATION SHORTLIST

The Constellation ShortList™ presents vendors in different categories of the market relevant to early adopters. In addition, products included in this document meet the threshold criteria for this category as determined by Constellation Research. This Constellation ShortList of vendors for a market category is compiled through conversations with early adopter clients, independent analysis and briefings with vendors and partners.

ABOUT THIS SHORTLIST

Quantum computing describes an approach to computing using quantum mechanical phenomena such as entanglement and superposition. The goal is to apply a probabilistic model to solve problems more quickly. Quantum computing is such a radical new way of computing that it needs software to be rewritten to take advantage of the platform.













Therefore, it is key to get enterprises and developers to learn how to build quantum applications early. Not surprisingly, many of the vendors covered in this Constellation ShortList are actively working with higher-education institutions to get their respective platforms, tools and processes taught to students early in their academic careers.

Quantum computing at the moment is most promising for use cases of annealing, adiabatic optimization, chemistry, cryptography, financial markets, machine learning, search and simulation in the next 12–18 months, so not surprisingly the vendor focus is on enabling these.

Enterprises are looking for holistic solutions beyond hardware, so vendors included in this list also offer related products and services that accelerate enterprise adoption. These can be in the areas of platform services, cloud services, programming languages, Q&A/testing, administration services, early adjacent products and more.

12 SOLUTIONS TO KNOW

Constellation evaluates more than 20 solutions categorized in this market. This Constellation ShortList is determined by client inquiries, partner conversations, customer references, vendor selection projects, market share, and internal research.

-  1QBIT
-  AWS
-  CLASSIQ
-  EVIDEN (FORMERLY ATOS)
-  GOOGLE
-  IBM
-  INTEL
-  MICROSOFT
-  QC WARE
-  QUANTINUUM
-  RIGETTI COMPUTING
-  STRANGEWORKS

LIKE WHAT YOU SEE?

Consider partnering with Constellation Research on your go-to-market-strategy. Email ShortList@ConstellationR.com for more info.

To learn more about Constellation Research Shortlists visit: www.constellationr.com/ShortList



THRESHOLD CRITERIA

Constellation considers the following criteria for these solutions:

- A working quantum computing enabling product
- Available since 3+ years for customer use
- Working actively on accelerating popular quantum computing use cases
- Active relationships with three or more quantum computing hardware vendors (unless being a quantum computing hardware vendor)
- At least 150 or more active customer/prospect conversations and/or beta/live customers
- Sufficient funding to remain a player at least in the early rounds of the quantum computing market

BUSINESS THEMES



New C-Suite



Technology Optimization

ABOUT CONSTELLATION RESEARCH

As an award-winning Silicon Valley-based strategic advisory and futurist analyst firm, Constellation Research serves leaders and organizations navigating the challenges of digital strategy, business-model disruption and digital transformation. Constellation works closely with solution providers, partners, C-suite executives, board of directors, and its Constellation Executive Network of buy-side leaders to lead the way in research coverage and advise clients how to achieve valuable business results.

FREQUENCY OF EVALUATION

Each Constellation ShortList is updated at least once per year. Updates may occur after six months if deemed necessary.

EVALUATION SERVICES

Constellation clients can work with the analyst and the research team to conduct a more thorough discussion of this ShortList. Constellation can also provide guidance in vendor selection and contract negotiation.



Holger Mueller
Vice President & Principal Analyst

Holger Mueller focuses on the synergies between people and software. As the hand-to-machine ratio radically changes over the next decade (primary factors: age dynamics and technology innovation), enterprises need to find the appropriate balance between changes in a dynamic workforce and the creation and adoption of next-generation applications, all determining the Future of Work and helping enterprises accelerate. Mueller provides strategy and counsel for key clients, including CTOs, CHROs and CIOs as well as investment analysts, VCs, PE firms and technology buyers.

