

# US Advanced Computing Infrastructure, Inc. Chicago Quantum <sup>SM</sup>

1461 Beaupre CT  
Highland Park, IL 60035  
(847) 780-4401  
chicagoquantum.com

September 15, 2021

This brochure provides you information about our firm's qualifications and business practices. If you have questions about this brochure, please call us at (847) 780-4401 or email the President, Jeffrey Cohen, at [jeffrey@quantum-usaci.com](mailto:jeffrey@quantum-usaci.com).

We are a business consultancy located in Highland Park, Illinois. We are an S-corporation established in 2010 and we have an A+ BBB rating.

We are a registered investment advisor in Illinois. Our registration does not imply any level of skill or training. You should base your decision to hire an Advisor on oral and written communications with them.

The information in this brochure has neither been approved nor verified by the US Securities and Exchange Commission, nor by any state securities authority.

The logo for Chicago Quantum, featuring the company name in a large, white, sans-serif font on a dark gray rectangular background. Below the name, the full legal name "US ADVANCED COMPUTING INFRASTRUCTURE, INC." is written in a smaller, white, all-caps, sans-serif font.

Chicago Quantum  
US ADVANCED COMPUTING  
INFRASTRUCTURE, INC.

The terms "client", "you", and "your" refer to the person(s) or organization(s) who contract for services. The terms "firm", "we", and "us" refer to US Advanced Computing Infrastructure, Inc.

Additional information about us is available on the SEC's website at [adviserinfo.sec.gov](http://adviserinfo.sec.gov).

The current version of this brochure is available at [chicagoquantum.com](http://chicagoquantum.com) free of charge.

## Services we offer:

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### Stock Analysis Services (fixed price)

We offer non-discretionary investment advice to clients including institutional investors, high net-worth individuals ('accredited' investors), and individual investors. We provide information for you to make your own investment choices.

Our advice is based on a proprietary quantitative algorithm (derived from the Sharpe Ratio), analysis model and a high-performance platform that we developed to run both classically and on quantum annealing computers. Our Chicago Quantum Net Score algorithm was uniquely developed to run on quantum computers. It is 'a little different' from other models.

We score individual common stocks on multiple dimensions. Our main score is its efficiency, or how a stock's expected return compares to its daily price volatility.

- A stock with minimum risk and maximum expected return is efficient, and will likely move 'up' faster than the underlying stock index.
- A stock with maximum risk and minimum expected return is inefficient, and will likely move 'down' faster than the underlying stock index.
- Sometimes these stocks move very quickly and aggressively as the market detects and corrects for this mis-pricing.
- Traditional measures like dividend yields, stock splits, anomalous volume and price spikes can tell us about a stock's history and help build the story for a stock.
- We assess skewness, which measures the daily price move bias (or asymmetry). Skewness tells us whether the tail of daily stock price changes has favored advances or declines.
- We assess kurtosis, which measures whether the stock makes unexpectedly large daily price moves, either up or down.
- We measure the BETA score against the index, which indicates the systematic risk in a stock, or how it moves with the market, and is a factor in determining expected 'future' returns.

We find multiple-stock portfolios, equally weighted, which either maximize or minimize their efficiency as a portfolio. This is computationally intensive (takes hours on our powerful desktop servers), and was the reason for developing a quantum computing algorithm.

Our services are delivered via a written management report of our analysis findings.

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### Ancillary Services (offered by the week or by the hour)

- We discuss our approach, methodology, findings and recommendations in detail.
  - We program a client's proprietary ideas, methods and models on our platform. The resulting code is run and maintained by our firm. The code is jointly owned.
  - We conduct financial planning discussions with clients to help them achieve specific goals.
  - We provide client-directed research and analysis of companies, industries or economies.
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### Subscription Services (fixed fee per month)

- We create and share custom content for a monthly fee.

## **Fees and Compensation**

- Analysis of your ~100 stocks (you provide tickers): \$150
- Analysis of one US listed stock exchanges (all 'listed' tickers): \$500
- Analysis of multiple US listed stock exchanges (all 'listed' tickers): \$1000
- We offer a discounted rate of \$750 for multiple exchanges with a 3 month commitment.
- Our weekly services rate is \$7,500 / week.
- Our hourly services rate is \$250 / hour.
- Subscription service is \$50/month per user.
- We create minimized, lower cost services for individual investors.

All prices are in US dollars and invoiced quarterly in advance of service delivery. Our payment terms are net 30 and accept payment either directly to our bank (wire or ACH), via a mailed check, or online through PayPal. Clients may pay for each service on our website.

We do not charge any performance-based fees. We make no guarantees for the outcomes of the investments recommended.

## **Assets Under Management**

We do not manage client investments.

## **Confidentiality**

You agree to hold our proprietary data and reports as confidential and not to distribute them without written approval.

We agree to keep your identity, the fact that you are a client, and any non-public or proprietary information that you share with us as confidential.

## **Account Termination**

Either party have the right to terminate this agreement for cause, or for no cause, upon 7 days advance written notice. You agree to pay for all services delivered. We agree to refund all fees for services not yet performed.

## **Conflicts of Interest**

The directors, officers, employees, and registered persons of the Adviser may purchase or hold securities that are recommended for purchase or sale to clients. These relatively small positions (<\$100k apiece) are publicly disclosed via social media and posted on our website within 24 hours.

## **Risk of Loss**

All investments shall be at your risk exclusively, and you must understand that we do not guarantee any return on the investments recommended or advised upon. Clients should consider their objectives and risk tolerances carefully. Investing in securities (long and short), involves significant risk and reward. You may lose your entire investment.

## **Client Contact**

Your client contact will be an employee of US Advanced Computing Infrastructure, Inc. You may reach us at (847) 780-4401 from 8am to 5pm CT, Monday through Friday.

## **Ownership**

Our firm is 100% owned by our President, Jeffrey Cohen, a US Citizen residing in Illinois.

## **Affiliations**

We have no affiliations with, nor receive compensation, from other financial institutions. Any recommendations we make in regards to brokers, insurance companies, or banks is based on our personal experience and research.

## **Financial Information**

Registered Investment Advisors are required to provide you with certain financial information or disclosures about the Advisor's financial condition.

- We meet the State of Illinois minimum capital requirements
- We do not solicit payment of fees more than six months in advance of services rendered.
- We do not we take custody of client cash, securities, or assets. funds or assets.

## **Advisor Brochure Supplement**

(Part 2B of form ADV | September 15, 2021)

Supplemental Information about Jeffrey Paul Cohen:  
President, US Advanced Computing Infrastructure, Inc.

Location:  
1461 Beaupre CT, Highland Park, Illinois  
60035-3902

Email: jeffrey@quantum-usaci.com  
Office: (847) 780-4401  
Cell: (312) 515-7333

Age: 53 years old

Mr. Cohen works from his office or travels to meet clients.



## **Educational Background**

Passed the Series 65 – Uniform Investment Adviser Law Exam (September, 2021)

Stuart Business School - Illinois Institute of Technology  
PhD course-work and dissertation research in Management Sciences.

J.L. Kellogg Graduate School of Management - Northwestern University  
Masters of Management, Finance, Management and Strategy with Distinction

University Of Chicago  
Bachelors of Arts in economics with General Honors

## **Professional Background**

US ADVANCED COMPUTING INFRASTRUCTURE, INC. Dec 2018 – Present  
President

Leading a quantum computing and financial services startup. Founding member of the US Quantum Economic Development Consortium (QED-C).

IBM CORPORATION Aug 2015 – Dec 2018

IS Projects Executive & Global Consulting Partner

IBM Global Technology Services (GTS) Band D executive. Mission to design, lead and grow a relevant, global infrastructure consulting business in the Systems/Hybrid Cloud service line. Eventually has global oversight over the consulting practices in five GTS IS service lines.

HEWLETT PACKARD ENTERPRISE Nov 2010 – Aug 2015

US Complex Pursuit Leader & Industry Consulting Partner

Responsible for \$80M US sales target for IT consulting and infrastructure projects. Hands-on role in serving Financial Services IT departments and a large pharmaceutical client.

SIEMENS IT SOLUTIONS & SERVICES, INC. Dec 2006 – Aug 2009

Managing Vice President, N.A. Professional Services

Led a turnaround of the \$108M IT Professional Services division growing revenue and profitability, while reducing business risk. Full P&L responsibility.

MCKINSEY & COMPANY, INC., Chicago, IL Mar 2000 - Feb 2006

Associate Partner

Part of the global Business Technology Office. Conducted 27 US and global IT projects.

KPMG CONSULTING LLC (a KPMG LLP firm) Dec 1995-Feb 2000

Senior Manager

Started, led and grew a national consulting practice (11 consultants) providing IT strategy services.

## **Disciplinary Information**

There are no legal or disciplinary items applicable to a client's or prospective client's evaluation. Registered Investment Advisors are required to disclose all material facts regarding any legal or disciplinary events that would be material to your evaluation of each supervised person providing investment advice.

## **Additional Compensation**

Mr. Jeffrey Cohen invests his own capital in securities. Most would be considered 'passive' investments. However, around 5% of his net worth is invested in a handful of individual stocks often selected by the Chicago Quantum Net Score model. This could pose a potential conflict of interest so he publicly discloses position changes within 24 hours.

Mr. Jeffrey Cohen also receives consulting fees from clients requiring expertise in areas of information technology, quantum computing, outsourcing and vendor management. He is currently helping performance artists in Canada to use quantum computers in cutting edge research. These are not related to his investment advisory services.

## **Social Media Channels:**

Twitter: [here](#)

Facebook: [here](#)

Reddit: [here](#)

LinkedIn: [here](#)

StockTwits: [here](#)

Medium: [here](#)

GitHub: [here](#)

Google Scholar: [here](#)

Research Gate: [here](#)