Job Title: Quantitative Researcher
Location: Riyadh, KSA

We are a high-frequency market-making firm specializing in providing liquidity to financial markets. Our operations depend on mathematical reasoning, real-time data analysis, and robust systems that support decision-making under uncertainty. We are looking for a Quantitative Researcher to join our team and help build the analytical and statistical foundations that guide our trading activity.

Overview

As a Quantitative Researcher, you will apply mathematical thinking, statistical reasoning, and computational methods to help us better understand market behavior. You'll work closely with engineers and traders to explore data, develop quantitative insights, and translate findings into order execution logic. Prior experience in finance or trading is not required — what matters is strong analytical ability, intellectual curiosity, and a disciplined approach to problem-solving.

Responsibilities

- Formulate hypotheses and investigate patterns in financial and market-related data
- Apply concepts from probability, statistics, and optimization to develop new methods of understanding uncertainty and decision-making
- Build efficient Python tools and scripts for data exploration and model experimentation
- Collaborate with engineers on integrating quantitative methods into production systems, with attention to computational efficiency and reliability
- Evaluate models empirically, using clear reasoning and evidence to understand their limitations
- Communicate research results clearly, focusing on interpretability, reproducibility, and sound methodology

Skills

- Strong mathematical background, with solid understanding of probability, statistics, and linear algebra
- Proficiency in Python for numerical and data analysis (NumPy, pandas, and related libraries)
- Comfort working with large or complex datasets, including structured and time-based data
- Logical, systematic approach to problem-solving and ability to reason from first principles
- Interest in computational efficiency, numerical methods, and how research interacts with real systems
- Interest in financial markets, systems, or complex dynamic environments
- Collaborative mindset and openness to learning new domains

Qualifications

- Education: Bachelor's or Master's degree in Mathematics, Applied Mathematics, Physics, Computer Science, Electrical Engineering, or a related quantitative discipline
- Experience: 0–4 years of relevant analytical or computational experience. Prior exposure to financial markets is not required.
- Familiarity with Linux environments and version control (e.g., Git) is a plus
- Experience or recognition in international mathematics or programming competitions, such as the International Mathematical Olympiad (IMO) or the International Olympiad in Informatics (IOI), is a strong plus

What We Offer

- Globally competitive compensation and opportunities for professional growth
- Exposure to real-world quantitative and data-driven decision-making
- A collaborative environment that values precision, curiosity, and independent thinking
- Opportunity to be a part of one of the fastest growing businesses in the regional capital markets space