2024 Corporate & Investment Bank - Quantitative Analytics Summer Associate Program – Hong Kong

Spend your internship working alongside our top tier professionals, driving innovation through financial engineering, derivatives modeling, asset and liability management and risk management. You'll help develop mathematical models, methodologies and tools used throughout the firm while gaining in-depth insight into the world of risk modeling, investment banking and the financial services industry.

What to expect
Our 2024 Associate internship program in Hong Kong has a duration of 6 months or depending on your academic schedule. Your professional growth and development will be supported throughout the internship program via project work related to your academic and professional interests, mentorship, engaging speaker series with senior leaders and more. Full-time employment offers may be extended upon successful completion of the program.

You can launch your career with us in one of several opportunities:

CIB Quantitative Research (QR)
Quantitative Research (QR) is an expert quantitative modeling group in J.P. Morgan, as well as a leader in financial engineering, data analytics, statistical modeling and portfolio management. As a global team, QR partners with traders, marketers and risk managers across all products and regions, contributes to sales and client interaction, product innovation, valuation and risk management, inventory and portfolio optimization, electronic trading and market making, and appropriate financial risk controls.

Derivatives Pricing, Risk Management & Electronic Execution
You'll contribute to the firm's product innovation, effective risk management, and financial and risk controls. Specially, you'll have the chance to:

- Develop mathematical models for pricing, hedging and risk measurement of derivatives securities;
- Develop mathematical models for algorithmic trading strategies as well as Delta-One trading strategies or inventory management;
- Support both OTC and electronic trading activities by explaining model behavior, identifying major sources of risk in portfolios, carrying out scenario analyses, developing and delivering quantitative tools, and researching for new trading ideas;
- Assess the appropriateness of quantitative models and their limitations, identifying and monitoring the associated model risk;
- Implement risk measurement, valuation models or algorithmic trading modules in software and systems;
- Design efficient numerical algorithms and implementing high performance computing solutions;
- Design and develop software frameworks for analytics and their delivery to systems and applications.

Data Analytics
Closely embedded within the business, we drive change through innovation and business process optimization using state-of-the-art machine learning techniques such as collaborative filtering, deep learning and reinforcement learning. Our activity touches all aspects of the business from sales and client interaction, to risk management, inventory and portfolio optimization, electronic trading and market making. If you are talented graduates in machine learning and related fields who want to join the transformation of our investment bank into a data-led business, you'll have the chance to:

- Contribute directly to the business and client franchise; identify and generate revenue opportunities
- Understand the market drivers behind market moves and their cross-asset and cross-market implications
- Work with cutting edge technology and analytics to infer pricing, hedging and idea generation
- Conduct quantitative research on medium to high frequency trading strategies
- Develop portfolio construction methodologies and new modeling approaches across our systematic businesses

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About you
We are looking for innovative problem-solvers with a passion for developing complex solutions that support our global business.

Key Qualifications Include:
- Currently enrolled in Ph.D. or a Master's degree program in Mathematics, Physics, Engineering, Computer Science, Machine Learning, Statistics or other quantitative fields
- Foundational knowledge of and proficiency in one or more programming languages (e.g., Python, Java, JavaScript, C++, C#)
- You demonstrate quantitative and problem solving skills as well as research ability
- You are good at communicating concepts and ideas, both verbally and via documentation, and explaining technical material to a non-technical audience
- Expected graduation beyond September 2024

Desirable Skills Include:
- Understanding of advanced mathematics arising in financial modelling (probability theory, stochastic calculus, partial differential equations, numerical analysis, optimization, machine learning, statistics, econometrics…)
- Knowledge of options pricing theory, trading algorithms or financial regulations

Beyond that, we’re interested in the things that make you unique: personal qualities, outside interests and achievements beyond academia and profession that demonstrate the kind of person you are and the differences you could bring to the team.

Join us
At JPMorgan Chase, we’re creating positive change for the diverse communities we serve. We do this by championing your innovative ideas through a supportive culture that helps you every step of the way as you build your career. If you are passionate, curious and ready to make an impact, we are looking for you.

Please click here to complete the online application.

What’s next?
We will review summer internship applications as they are received and extend offers on a rolling basis. We strongly encourage you to apply early, as programs will close as positions are filled.

JPMorgan Chase is committed to creating an inclusive work environment that respects all people for their unique skills, backgrounds and professional experiences. We strive to hire qualified, diverse candidates, and we will provide reasonable accommodations for known disabilities.

Visit jpmorganchase.com/careers for upcoming events, career advice, our locations and more.

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