

# Analytics & Risk

Positions available in all regions: Americas, Europe, and Asia Pacific

## **Together, we help more and more people experience financial well-being.**

In particular, our Analytics & Risk business works with our investment business to continually analyze, understand, and manage the risk of our clients' portfolios in real time.

## **What business divisions sit within Analytics & Risk?**



### **Aladdin Wealth Tech**

Partner with clients and builds technology products to help them analyze their enterprise risk, build better portfolios, and amplify the value they deliver



### **Financial Markets Advisory**

Advise clients with complex capital market exposure



### **Portfolio Analytics**

Use data and analytics to solve business problems



### **Quantitative Modelling**

Research and develop financial models



### **Risk & Quantitative Analysis**

Manage BlackRock's fiduciary and enterprise risk

Full details of each role follow.

# Aladdin Wealth Technology

Positions are available in all regions: Americas, Europe, and Asia Pacific

We are a fast-growing FinTech business operating within BlackRock Solutions, and our mission is to demonstrate the power of BlackRock's data, scale, and financial models to give financial advisors the edge they need to deliver better outcomes to their end customers.

The Aladdin Wealth Tech team partners with wealth management clients to help them oversee their enterprise risk, build better portfolios, and enhance their value proposition to clients. This is achieved by leveraging risk analytics – powered by Aladdin® – to equip wealth management clients with model construction capabilities, risk monitoring tools, and portfolio construction & analytics.

## Our business contains two teams:

### Client Teams

Manage and grow client relationships throughout the entire client life cycle, from early-stage sales pitches to technical implementations to managing live clients on the Aladdin Wealth platform

### Product Teams

Design, develop, and deliver software and services that empower wealth managers to create better portfolios and deliver more value to their clients

Innovate and create higher scale in all aspects of our business, including the product, operations, and client service model

## What will you do as an analyst?

### Client Teams

- Function as the internal representative for clients by driving alignment between the Aladdin Wealth offering and client needs
- Gather, compile, model, validate, and analyze data to provide meaningful insights
- Be the primary point of contact for all Tools, Analytics and Data related client inquiries
- Perform technical analysis and support the design and development of new Aladdin Wealth product and risk capabilities
- Learn about our clients' business strategy and the broader wealth management industry to inform the product roadmap

### Product Teams

- Develop application software and infrastructure in primarily Java/Scala (back-end engineering) or Typescript with React (front-end)
- Monitor and support the Aladdin Wealth platform
- Iterate on UI/UX with design teams to create experiences that maximize user delight for financial advisors (front-end)
- Measure, analyze, and improve the performance and reliability of Aladdin Wealth external APIs (back-end)
- Leverage distributed computing technology to scale up Aladdin Wealth capabilities to millions of portfolios (back-end)

# Aladdin Wealth Technology

## What capabilities are we looking for?

- Strong project management and coordination skills; able to manage multiple priorities
- Strong technical problem-solving skills and analytical thinking
- Strong communication skills, both written and verbal, with the ability to convey sophisticated concepts simply and clearly
- Strong computer skills and an aptitude for learning new systems. For back-end-focused roles, a passion for distributed databases is useful. For front-end-focused roles, experience with Typescript is useful

## Your learning & development will include:

- A robust training program and ongoing development through your time with the firm
- The skills and support network you need for a successful career at BLK
- The opportunity to work with some of the most sophisticated clients globally, while learning fundamental financial and technological skills
- Mentorship from experienced software engineers, product managers, analytics specialists and client relationship managers on the team

# Financial Markets Advisory

Positions are available in: Americas and Europe

The Financial Markets Advisory business delivers a range of advisory services including sustainability, capital markets, portfolio construction and data & analytics solutions to financial institutions, regulators and government entities globally, including banks and insurance companies. We support our clients on their most critical and complex financial issues – from managing the low carbon transition of the economy and financial sector, to unwinding portfolios of assets, to crafting and executing bond purchase programs to support the economy.

We leverage the firm's sophisticated sustainability, capital markets, data & analytics and technology capabilities to deliver impact-oriented advisory services, while maintaining an information barrier from the rest of the firm.

Since our founding, we have completed assignments for more than 280 clients in 37 countries. Our professionals work out of all three BlackRock regions (Americas, Europe, Asia Pacific), allowing us to serve clients in all locations and respond to their needs as they arise.

## In this role you will partner with:

- **Externally:** You will engage with financial institutions, regulators, central banks and governments, providing advisory services to institutions in both the public and private sector
- **Internally:** You will leverage BlackRock's unparalleled capabilities across Sustainable Investing, Capital Markets, Aladdin (including Aladdin Climate), and Research functions

## What will you do as an analyst?

- Enforce BlackRock's fiduciary culture of providing the highest quality service and work product to our clients
- Learn about financial institutions, markets, and critical financial issues
- Develop deep practitioner insight and leading research capabilities
- Be afforded a diverse professional experience with broad reach across the public and private sectors, interacting with clients to present results, and address requests and questions
- Develop analytics and data management skills by leveraging state of the art technology, modeling expertise, and a global risk analytics platform
- Play a key role on multidisciplinary project teams including financial experts, market practitioners and technologists, assisting in leading project progress and executing key action items
- Build and deploy subject matter expertise across a range of themes in order to help clients achieve their objectives, including sustainability, capital markets, data and analytics, etc.
- Hone a disciplined advisory approach and flexible delivery model to support our clients

# Financial Markets Advisory

## What capabilities are we looking for?

- Excellent problem-solving abilities and intellectual curiosity
- Meticulous attention to detail and strong sense of initiative and ownership
- Effective communication and presentation skills
- An aptitude for analytical work and a structured approach to sophisticated analysis
- Proven project management skills in executing multi-faceted assignments
- Strong willingness to perform work as part of a hardworking international team
- Interest in financial institutions and capital markets
- Quantitative coursework and familiarity with programming languages is a plus

## Your learning & development will include:

- Deep and continuous learning experience facing innovative and complex challenges and evolving market trends, enabling you to become a subject matter expert in topics such as sustainability and capital markets
- Building project management and leadership skills by executing projects
- Developing client management and commercial skillset through exposure to business development opportunities during client meetings and project execution

# Portfolio Analytics

Positions are available in: Americas, Europe, and Asia Pacific

The Portfolio Analytics group delivers analytics that provide transparency to each client's portfolio on Aladdin. We weave together Aladdin's world-class data, financial models and technology to develop meaningful insights for investment and client teams. Analysts on our team will develop a broad understanding of finance, clients, and technology. They will learn to navigate teams across BlackRock, to explore opportunities for new ways to apply data and analytics with high impact and deploy enhanced analytics to provide actionable insights into portfolios.

## Our business contains five teams:

### Client Business Analytics

- Enable the firm to deliver tailored investment solutions and develop deeper partnerships with institutional clients
- Deliver sales enablement analytics and peer group analysis tools to drive sales of BlackRock products

### ETF and Fund Analytics

- Provide analytic solutions to product and portfolio consulting teams that enable deeper client engagements and facilitate sales
- Deliver analytic insights that generate efficiencies in the investment and risk management processes of our ETF and Index Investments businesses

### Asset Allocation Analytics

- Provide analytical insights and bespoke portfolio implementation tools to Multi-Asset Strategies and Client Portfolio Solutions businesses
- Evolve asset allocation, portfolio construction and performance attribution capabilities of Aladdin

### Aladdin Platform Analytics

- Enable access to analytics across BlackRock and the Aladdin community, as well as modernizing the underlying components of the analytics creation process
- Empower citizen developers in our investment and risk management teams with the latest in data, analytics and compute capabilities

### Active Investing Analytics

- Develop and deliver analytic content for the Active Equities and Active Fixed Income investment businesses
- Deliver single-security valuation and risk models, and evolves Aladdin's risk management capabilities

## We partner with:

- **Internally:** Portfolio Managers, Risk Managers, Product Strategists, Portfolio Consultants, COOs of Investment teams, and many others
- **Externally:** Aladdin client community

# Portfolio Analytics

## What will you do as an analyst?

- Gain an understanding of analytics, markets, and Aladdin's capabilities
- Utilize analytical models, reports and large-scale data processing tools to help investment teams and clients manage their portfolio risk, exposure and performance
- Perform special analyses in response to market events, new business opportunities and client needs
- Contribute to the creation, testing and roll-out of financial models, analytics and reporting for new security types and products
- Provide rapid response tactical solutions demonstrating critical thinking, programming skills and creativity
- Coordinate with colleagues globally, across cross-functional teams
- Engineer processes and improve tools to deliver analytics and support BlackRock's Aladdin technology infrastructure
- Improve operational efficiencies to enable scalable business growth
- Work with technology and analytics groups to build and deliver scalable customized solutions using Aladdin APIs and the Aladdin Data Sciences platform

## What capabilities are we looking for?

- Analytical approach
- Basic or intermediate coding and programming skills
- Presentation skills
- Problem solving
- Technical curiosity

## Your learning & development will include:

You will develop expertise in multiple core areas that will serve as the foundation for your career, including:

- Financial markets
- Clients and industries
- Technology and the Aladdin platform

# Quantitative Modelling

Positions are available in: Americas and Europe

The Quantitative Modelling group is responsible for researching, developing and implementing state-of-the-art quantitative models used to assess financial risk across fixed income, equities, derivatives, and alternative products. We use the expertise of our model researchers and our engineers, along with the collective intelligence of our partners across BlackRock and our client community, in order to deliver quantitative solutions and insights to help analyze investments and manage risk.

## Our business contains two teams:

### Research & Modelling

- Apply sophisticated mathematical and programming techniques to develop models and analytics for areas such as interest rates, equities, macroeconomic variables and scenarios, corporate credit, mortgages, structured products and portfolio risk, return attribution, and optimization
- Collaborate with partners across the organization to empower our large number of clients to manage their investments and risks
- Learn, build, collaborate and innovate across a wide variety of topics and projects

### Development/Engineering

- Architect our analytics platform to provide accurate, scalable, and reliable quantitative insights, for the trillions of dollars in assets that run on our investment platform, Aladdin
- Build and evolve applications to better deliver our analytics and models to clients
- Apply fast-growing technologies such as machine learning and cloud computing to enable more powerful modelling and analysis

## We partner with:

- **Internally:** We partner with Portfolio Analytics, Software Engineering, Aladdin Business and others, to build, implement and deploy our models & analytics to users of Aladdin.
- **Externally:** We engage with Aladdin clients to offer them thought leadership and subject-matter expertise -- helping them understand Aladdin's analytics capabilities and how they can help their clients manage their portfolios.

## What will you do as an analyst?

- Build and implement new and improved financial models on the Aladdin platform
- Engineer next-generation data and model platforms through use of cutting-edge technologies
- Apply quantitative and analytical skills to solve business problems and fulfill client requests
- Communicate sophisticated models to clients and end users with varying technical backgrounds
- Build financial and statistical knowledge while improving quantitative skills
- Contribute to high-profile projects that advance BlackRock's top strategic priorities



# Quantitative Modelling

## What capabilities are we looking for?

- For developer/engineer roles, proficiency in Java, C++, or other languages/technologies is required
- For model research roles, experience in systems such as R is strongly preferred
- Analytical approach
- Critical thinking
- Numerical skills
- Problem solving
- Technical curiosity

## Your learning & development will include:

- Developing your quantitative, analytical problem-solving skills
- Growing your understanding of risk analytics and how investors use them in managing portfolios
- Learning how technology platforms work to deliver quantitative insights reliably and at scale
- Gaining experience working with teams to run sophisticated projects and meet clients' needs

# Risk & Quantitative Analysis

Positions are available in: Americas, Europe, and Asia Pacific

The Risk and Quantitative Analysis business provides independent oversight of BlackRock's fiduciary and enterprise risks by crafting and delivering risk management, tailored advice and analytics. We promote BlackRock as a leader in risk management by providing top-down and bottom-up oversight to help identify investment, counterparty, operational, regulatory and technology risks. In addition to producing quantitative analysis to support BlackRock, we ensure portfolio risks are consistent across mandates, reflect current investment themes within particular strategies, and follow client-specific risk guidelines. We also work with other businesses across the organization to help portfolio managers build risk-aware portfolios and develop analytics used for risk and portfolio management using the capabilities of Aladdin.

## Our business contains four teams:

### Investment risk

- Advises investment businesses on portfolio construction, hedging strategies and other quantitative aspects of managing risk and return for portfolios.
- Develops expertise in global portfolio management teams' investment process in order to provide quantitative advice and risk oversight.

### Technology risk

- Helps define and supervise BlackRock's technology controls to protect our clients and the firm.
- Focuses on key risks such as technology outages, information security breaches and ineffective organizational change.

### Enterprise risk

- Identifies risks that directly impact the corporate entity.
- Responsible for all aspects of operational risk: error investigation, new product risk assessments and development of the operational risk framework.
- Includes operational, model, third-party and regulatory risk management.

### Counterparty & concentration risk

- Focuses on identifying potential counterparty credit risks inherent to BlackRock and its clients.
- Responsible for assessing, approving and supervising the creditworthiness of all trading counterparties as well as analyzing BlackRock's exposure to these entities.

## We partner with:

**Internally:** BlackRock Portfolio Managers, Trading & Liquidity Strategies, Government Relations, Quantitative Modeling, Portfolio Analytics, Software Engineering, Legal and Compliance, Business Operations, Internal Audit, Finance

## Our team is known for:

- Partnering with global portfolio management teams to construct portfolios that are consistent with specified risk and performance objectives
- Maintaining integrity as a fiduciary to clients
- Holding unbiased insights into financial markets and portfolios
- Providing critical independent thought leadership
- Providing independent risk oversight for senior management of the firm and the Board of Directors
- Effectively communicating and influencing internal partners to manage risk

# Risk & Quantitative Analysis

## What will you do as an analyst?

- Apply statistical techniques to real financial data and live portfolios to aid portfolio managers' real-time decision making
- Learn to critique risk models using experience and judgment to interpret the output and suggest model improvements
- Learn to communicate sophisticated ideas to key partners in a high impact manner
- Use R or Python to query data, run statistical analyses and build data visualizations to optimally communicate insights
- Get a deep understanding of financial markets and portfolio construction
- Provide independent and consultative risk management services on a range of key projects including risk identification and evaluation of corresponding controls

## What capabilities are we looking for?

- Intermediate coding & programming skills in R and/or Python
- Analytical approach
- Strong communication skills
- Critical thinking
- Problem-solving skills
- Relationship management
- Interest in financial markets