

BLACKROCK® CAMPUS CAREERS

ABOUT BLACKROCK®

BlackRock was founded 28 years ago by eight entrepreneurs who wanted to start a very different company. One that combined the best of a financial leader and a technology pioneer. And one that focused many diverse views on a singular purpose: making a difference in the lives of the parents and grandparents, the doctors and teachers who entrust us with their money—and their futures—every day.

UNLOCKING ANALYTICS & RISK

ALADDIN CLIENT SERVICES

Use technology to solve some of the most complex problems in FinTech

Every day, the Aladdin Client Services Team tackles the hardest, most sophisticated problems in FinTech. We utilize our in-depth understanding of Aladdin®, our clients' businesses, and the investment management process to provide world-class customer service to our rapidly-growing, global client base. We all studied different disciplines and bring unique skills to the table, but we all share a serious passion for solving tough problems and keeping our clients happy.

New York | London | San Francisco
Edinburgh | Singapore | Tokyo

PORTFOLIO ANALYTICS

Create and deliver analytics to help solve business problems

Portfolio Analytics within BlackRock Solutions creates and delivers Aladdin's® analytical capabilities to help the firm and our clients understand and manage their investments and risk. Our group leverages financial expertise, technical skills and knowledge of the investment process to implement scalable solutions. Analysts develop a comprehensive understanding of finance, clients, and technology; they learn to navigate all groups at BlackRock to solve business problems.

New York | London | San Francisco | Tokyo

RISK & QUANTITATIVE ANALYSIS

Manage BlackRock's fiduciary and corporate risks

The Risk and Quantitative Analysis team provide independent advice and quantitative evaluations to lead BlackRock's management of its fiduciary and corporate risks. We apply statistical insights to our clients' portfolios and broad financial markets in order to form close advisory partnerships with investment teams and encourage best practice across the firm.

New York | London
San Francisco | Hong Kong

FINANCIAL MODELING

Research and develop financial models

The Financial Modeling Group is responsible for researching, designing and implementing the quantitative models used to assess financial risk across fixed income, derivatives, equities and multi-asset products. We work closely with the Portfolio Analytics Group to deliver analytical insights to investment and risk professionals at both BlackRock and external Aladdin clients.

New York | London | San Fran



KEY TASKS



ANALYZE
PORTFOLIOS



BUILD
MODELS



TRAIN
CLIENTS



MANAGE
RISK



BLACKROCK® CAMPUS CAREERS

ABOUT PORTFOLIO ANALYTICS

Portfolio Analytics within BlackRock Solutions creates and delivers Aladdin's® analytical capabilities to help the firm and our clients understand and manage their investments and risk. Our group leverages financial expertise, technical skills and knowledge of the investment process to implement innovative scalable solutions. Analysts develop a broad understanding of finance, clients, and technology; they learn to navigate all groups at BlackRock to solve business problems.

OUR TEAM IS KNOWN FOR:

- ▶ **Problem solving:** We partner with investments, risk and client-facing teams to understand their business problems and provide creative solutions using Aladdin® analytics
- ▶ **Innovation:** We sit at the intersection of finance and technology. We conceptualize, design and implement new capabilities to ensure that Aladdin® remains the best platform for clients to understand and manage portfolios and risk
- ▶ **Centralized & scalable operating platform:** Aladdin® is a global investment platform that helps us solve problems in a scalable and efficient manner

AS AN ANALYST YOU WILL:

- ▶ Gain a broad understanding of **analytics, markets, and Aladdin's® capabilities**
- ▶ Utilize **analytical models, reports and large scale data processing tools** to help clients manage their portfolio risk, exposure and performance
- ▶ Perform **special analyses in response to market events**, new business needs and client needs
- ▶ Contribute to the **creating, testing and roll-out** of financial models, analytics and reporting for new security types and products
- ▶ Provide **rapid response tactical solutions** leveraging critical thinking, programming skills and creativity
- ▶ **Engineer processes and enhance tools** to deliver analytics and support BlackRock's Aladdin® technology infrastructure
- ▶ **Improve operational efficiencies** to enable scalable business growth

QUALITIES WE LOOK FOR:

- ▶ Demonstrated passion for capital markets and investment management
- ▶ Keen interest in critical thinking and applying technology to solve problems
- ▶ Ability to synthesize and articulate complex ideas
- ▶ Eagerness to master the underlying infrastructure, models and tools within BlackRock's Aladdin® system
- ▶ Interest in learning techniques such as statistical analysis (R, SAS, Matlab), data mining (Scala, Hadoop, Spark, SQL), web development (Javascript/AngularJS, HTML, CSS) or full scale enterprise application development (Java, C/C++, Python)
- ▶ Strong communication skills and ability to work well on cross-functional teams
- ▶ The ability to prioritize, multi-task and work independently
- ▶ Desire to gain a broad understanding of our industry and clients

Develop a Core Skillset

As an analyst in PAG you will develop expertise in four core areas that will serve as the foundation for your career:

- Financial Markets
- Clients/Industries
- Technology/Aladdin®
- Navigating BlackRock

Representative Projects

Retail Analytics Capabilities

Developed a platform to deliver Aladdin risk analytics and capabilities to financial advisors allowing them to build better portfolios for their clients.

Industry Peer Risk Analysis

Modelled suite of portfolios leveraging public data representing segments of the insurance industry. In depth analytics highlighted relevant trends enabling our client teams to deepen existing relationships and win new business.

Client Implementation

Designed and implemented an analytical framework for a new Value at Risk model to satisfy regional regulatory guidelines to successfully onboard a new Aladdin® client.

ECB Asset Quality Review

Partnered with the Financial Modeling Group to analyze portfolios of European banks using data processing technologies (Apache Hadoop, MapReduce).

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OUR TEAM IS KNOWN FOR:

We are product experts with a reputation for getting the job done. We..

- ▶ **Deliver** exceptional customer service to users, every time.
- ▶ **Solve** difficult problems by providing innovative solutions.
- ▶ **Collaborate** with others because we know we can do more together.
- ▶ **Figure** out what needs to get done and then do it.
- ▶ **Learn** every day, question everything, and embrace change.
- ▶ **Foster** a fun, innovative team atmosphere.

ACS has a long history of providing top talent to the Aladdin Business and broader BlackRock community – we are laser focused on giving Analysts the skills that they need for a successful career at BlackRock.

AS AN ANALYST YOU WILL:

- ▶ **Become an Aladdin Expert:** Our Analysts develop deep product expertise in a short amount of time. This translates into unparalleled ownership and senior exposure at early stages in their careers.
- ▶ **Answer questions and help our clients run their businesses on Aladdin:** You will take phone calls, emails, and chats from industry practitioners at some of the world's most respected investment institutions. You will solve problems that matter, making a direct, measurable difference to our clients. In the process, you will build technical, industry, and relationship skills.
- ▶ **Use technology to solve problems:** Regardless of your background, we will teach you the skills you need to succeed and understand our products. We will also give you fun, impactful opportunities to leverage the skills you have.
- ▶ **Educate users, leverage service insights, and relay user experience feedback to improve the customer experience and our product:** We believe that the best customer service is proactive, not reactive. We are students of our own data and engage with our clients to keep problems from arising, rather than dealing only with issues that are brought to our attention.
- ▶ **Work on a global team, with a local presence:** Our support model follows the sun – if a market is open somewhere in the world, so are we! You will get to work with teams across the world, while still engaging with a vibrant local team.

QUALITIES WE LOOK FOR:

- ▶ A passion for customer service and working with others
- ▶ A demonstrated love of technology
- ▶ Aptitude for problem solving and learning new concepts quickly
- ▶ A gritty, get-it-done approach to work
- ▶ Strong communication skills and a talent for teaching others
- ▶ Intellectual curiosity and an innovative mindset
- ▶ Patience, flexibility, and the ability to thrive in a fast-paced environment
- ▶ An interest in the financial markets

ALADDIN AT A GLANCE

The Aladdin Business is one of the fastest growing product businesses in FinTech:

- ▶ Over 500 members of the Aladdin Business
- ▶ Over 1,500 engineers dedicated to developing Aladdin

Aladdin is BlackRock's end-to-end investment platform. Just like the markets and users it services, it is complex and rapidly evolving:

- ▶ Home to over \$17 trillion in assets under management
- ▶ Nearly 200 unique clients
- ▶ A rapidly growing client base that includes close to 30,000 users
- ▶ Presence in over 50 countries

The clients you will work with include some of the world's most sophisticated asset managers, insurance companies, banks, treasuries, pension funds, and sovereign wealth funds

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OUR TEAM IS KNOWN FOR:

- ▶ Integrity as a fiduciary to clients
- ▶ Unbiased insights into Financial Markets and Portfolios
- ▶ Critical independent thought leadership
- ▶ Partnering with the global investment teams in constructing portfolios that are consistent with specified risk and performance objectives
- ▶ Providing independent risk oversight for senior management of the firm and the board of directors

AS AN ANALYST YOU WILL:

- ▶ Apply statistical techniques to real financial data and live portfolios to aid fund managers' real-time decision making
- ▶ Enhance processes and risk analyses to better align risk policies and methodologies with the client's objectives
- ▶ Learn to critique and exercise judgment around analytics, having developed a deep understanding of risk methodologies
- ▶ Learn to communicate complex ideas to key stakeholders in a high impact manner
- ▶ Facilitate risk and control self-assessments with the business.
- ▶ Provide independent and consultative risk management services to the business on a range of key projects including risk identification and evaluation of corresponding controls

QUALITIES WE LOOK FOR:

- ▶ Exceptional quantitative, analytical background and genuine interest in problem solving
- ▶ Strong communication skills. The candidate must demonstrate the ability to explain analytical or quantitative concepts in practical and simple terms
- ▶ Broad interest in financial markets and investments
- ▶ Attention to detail, a strong work ethic and ability to work as part of a team in a fast-paced environment.

TEAM(S) AT A GLANCE

Investment Risk

- Provides quant analysis on portfolios and markets to inform portfolio construction and risk taking decisions of the portfolio management teams

Corporate Operational Risk

- Identifies risks which 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

Technology Risk

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

Counterparty & Concentration Risk

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

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OUR TEAM IS KNOWN FOR:

- ▶ Owning and maintaining Aladdin's analytical core
- ▶ Leveraging sophisticated statistical techniques
- ▶ Using cutting edge "big data" tools
- ▶ Valuing complex securities via Monte Carlo simulation

AS AN ANALYST YOU WILL:

- ▶ Solve business-critical problems by writing code
- ▶ Fire up the debugger to investigate production issues
- ▶ Explain complex models to non-technical end users
- ▶ Learn finance while doing engineering

QUALITIES WE LOOK FOR:

- ▶ Ability and desire to program
- ▶ An aptitude for Mathematics
- ▶ An interest in Finance
- ▶ Boundless curiosity coupled with a "can-do" attitude

TEAM(S) AT A GLANCE

Mortgage Modeling

- Analyze vast quantities of historical data to predict future borrower prepayment and default behavior

Portfolio Risk

- Estimate range of outcomes for any investment from a stock, bond or swaption to an entire enterprise balance sheet all in terms of market risk factors

Security Valuation and Term Structure

- Calculate prices and estimate risks for complex financial instruments by constructing models which combine techniques from mathematics, statistics and computer science.