

# Make Things Possible



## 2018 Goldman Sachs Technology Degree Apprenticeship

### ABOUT GOLDMAN SACHS

The Goldman Sachs Group, Inc. is a leading global investment banking, securities and investment management firm that provides a wide range of financial services to a substantial and diversified client base that includes corporations, financial institutions, governments and individuals. Founded in 1869, the firm is headquartered in New York and maintains offices in all major financial centers around the world.

### ABOUT ENGINEERING

Our Engineers don't just make things – we make things possible. Change the world by connecting people and capital with ideas. Solve the most challenging and pressing engineering problems for our clients. Join our engineering teams that build massively scalable software and systems, architect low latency infrastructure solutions, proactively guard against cyber threats, and leverage machine learning alongside financial engineering to continuously turn data into action. Create new businesses, transform finance, and explore a world of opportunity at the speed of markets.

Want to push the limit of digital possibilities? Start here.

### ABOUT THE TECHNOLOGY DEGREE APPRENTICESHIP

This is an opportunity to earn a salary and degree while embarking on a career in financial services and technology. The 'Degree Apprenticeship Program' will allow participants to complete an apprenticeship within Goldman Sachs' Technology division while studying for a degree at Queen Mary University of London. Apprentices will work at Goldman Sachs two days a week during term time, and five days a week during university holidays. After the four-year program, participants will graduate with a bachelor's degree Digital and Software Solutions, with the potential opportunity of a full time position with Goldman Sachs.

Please visit our [website](#), read the Apprentice [blogs](#), and watch the [video](#) to learn more.

### LOCATIONS

London, United Kingdom

### ROLES

#### Software Engineering

Transform our business and work across all areas of the firm to design and implement high-quality, scalable and smart solutions. Leveraging both internal and open source services, we design and develop applications capable of building, maintaining, and processing large & complex data sets.

Ensuring we have the most up-to-date and actionable information, we constantly strive to boost performance and exceed industry standards in order to meet our clients' evolving needs. We look for ways to improve our operations and enhance our client offerings through internal and external platforms as we build and expand the capacity for data mining, anomaly detection, and business intelligence.

#### Financial Modelling

We look beyond the numbers and find the trends. As a member of our team, you will extract meaningful information to engineer advice and solutions that have real-world implications for our clients and the firm.

This level of expert analysis involves large, at times global, data sets – both structured and unstructured – to build predictive models that are relevant to specific business centers and account for market variables.

These quantitative techniques then inform effective and accurate cross-asset trade and portfolio ideas for our clients.

In collaboration with your team and others across the firm, you will build and enhance advanced quantitative and analytical methods, utilizing software to design risk modeling systems and develop machine learning algorithms.

Specifically, your role will focus on providing APIs to clients helping them generate alpha, risk calculations and business metrics. This valuable information will allow them to build and challenge risk models that identify and quantify market and liquidity risk and modeling vulnerabilities.

[goldmansachs.com/careers](http://goldmansachs.com/careers)

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## Infrastructure Engineering

Infrastructure Engineering is a multi-faceted role that allows you to explore data center design, networks, storage, cloud computing, big data, application messaging, databases, communications, market data and software languages.

Make things possible for our clients and the firm as you design and build our compute and data infrastructure. You will put your expertise to work in a variety of challenges, from identifying internal hardware needs, to implementing public and private cloud-based solutions to providing seamless, on-demand scaling of our applications.

We provide a robust testing platform that involves the best standards, solutions and tools to ensure uninterrupted operation of all of our lines of business. You will have the opportunity to use data mining techniques to identify and react to problems in the firm's infrastructure and platforms. A role on this team allows you to use your experience to help us transform the future at Goldman Sachs.

## Cyber Security

Protect our clients and the integrity of our firm around the world in both an advisory and engineering capacity as you develop and propagate our security control strategy. Be on the front line of our operations every day, helping the firm to protect itself & its clients and manage risk. Information security is a top priority and in this role, you will focus on analysis, penetration testing, cryptography and authentication.

This defense involves performing security operations to detect, analyze and respond to threat intelligence and incidents – quickly. We do this by leveraging data mining and machine learning techniques to identify malicious activity and cyber risks.

Working as a part of a larger team, you will help developers create secure applications, and advise the firm's network and systems engineers as they build infrastructure. Together, we are helping to secure the future of the firm and our clients – every day.

## BASIC QUALIFICATIONS

This program is suited for students looking to pursue a university degree commencing in Autumn 2018, and possessing a keen interest in building solutions to complex problems.

Applicants will be required to meet the minimum entry requirements of Queen Mary University of London. Given government requirements, only European Economic Area (EEA) nationals are eligible for this program.

Goldman Sachs recruits students and graduates who have a record of outstanding achievement in academic and extracurricular activities. A background in finance is not necessary. What we do require are integrity, professional excellence and teamwork.

In addition, we look for people who:

- Display a passion for technology
- Have computer science, math, statistics, and/or engineering backgrounds
- Have strong analytical and organizational skills
- Display excellent interpersonal and communication skills
- Are highly motivated and adaptable
- Are accurate and detail-oriented
- Display creativity and entrepreneurial spirit

## APPLICATION PROCESS

Visit [www.goldmansachs.com/careers](http://www.goldmansachs.com/careers) to complete the Goldman Sachs application. Complete the Goldman Sachs Apply On-Line application at [www.goldmansachs.com/careers](http://www.goldmansachs.com/careers). Please note you may apply only once for the 2018 recruiting year and will not be able to make additional changes to your application once submitted. **One-page CVs that are formatted as PDFs are strongly recommended.**

For this position, you would select Technology – Other Internships.

**APPLICATION DEADLINE:  
18 March 2018**

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