



# Careers Handbook

## 2020

## Initial Information

This booklet contains information about our sponsors, and what kind of opportunities they can offer you. There is a notes section on the back of this booklet for you to write down any important details you find out! You can view the full list of sponsors by visiting [docsoc.co.uk/sponsors](https://docsoc.co.uk/sponsors).

Our sponsors will be hosting lots of events and posting many opportunities throughout the year, so be sure to read weekly Digest emails, any other special emails, and keep checking our Facebook and Twitter pages:

**Facebook:** [facebook.com/ICDoCSoc](https://facebook.com/ICDoCSoc)  
**Twitter:** [@ICDoCSoc](https://twitter.com/ICDoCSoc)

You also have access to the **DoCSoc Sponsors Portal** which is where you can upload your CV, and find out more details

about how to apply to all the companies mentioned. You can access the portal at [portal.docsoc.co.uk](https://portal.docsoc.co.uk).

*The information in this book was provided to DoCSoc by representatives of each respective sponsor between August and October 2020. Information regarding job positions and postings may change after this book goes to print. If there are discrepancies between a job posting online and in this booklet, assume that this booklet is outdated and that the online information is more up to date.*

*If you have any suggestions, criticisms or other comments about this booklet and our sponsors, please direct all enquiries to [docsoc@imperial.ac.uk](mailto:docsoc@imperial.ac.uk) whereupon a member of the DoCSoc committee will reply to you.*





## American Express

GOLD

### What We Offer

Summer Internship (1st Year)	✓
Summer Internship (2nd Year)	✓
3rd Year Industrial Placement	✗
Graduate Roles	✓

American Express is continuing an exciting transformation driven by an energetic team. This diverse and creative organisation has the power to shape our technology and product roadmap. If you have an interest in improving your skills in a tech environment while meeting innovative thinkers and serving our customers across physical and digital spaces, join our transformation team!

You will have the opportunity to work across a multitude of features across our software products, like Spring Cloud and Webflux for reactive Java services, or Node.js driving React web applications and even polyglot microservices; latest versions of Kotlin and Swift language features driving the mobile team. We're often experimenting with new technologies; it's all about picking the right tool for the right job.

As part of the American Express

Technology team you will have the opportunity to work on worldclass Card Member experiences on multiple channels, as well as explore different career paths through our two-year rotational programme. There is also the opportunity to choose from a number of potential roles within our Scrum teams; such as Software Engineers, Data Architects, Quality Assurance Engineers, Product Owners and hybrid roles across the organization, giving you the skills and experience to help you accelerate in your career.

What type of work can you expect to do in Technology at American Express?

- Identify exciting opportunities for adopting new technologies to solve existing needs and predict future challenges
- Develop software applications as part of a Scrum team
- Learn technical skills, write code, conduct code reviews and testing
- Work with product managers to prioritise features for new products and manage a list of requirements based on industry trends and new technologies
- Bespoke learning and development programme, e.g. technical, leadership, networking and soft skills
- Opportunity to impact 80 million customers' interactions with our services
- Take part in social activities, charity days, and projects with graduates, interns, and apprentices



## G-Research

GOLD

### What We Offer

Summer Internship (1st Year)	✗
Summer Internship (2nd Year)	✓
3rd Year Industrial Placement	✓
Graduate Roles	✓

G-Research is Europe's leading quantitative finance research firm. We hire the brightest minds in the world to tackle some of the biggest questions in finance. We pair this expertise with machine learning, big data, and some of the most advanced technology available

to predict movements in financial markets.

We have a variety of internships and full time roles available every year. These include positions in Software Engineering, ML Engineering, Quantitative Research and Data Analytics. To find out more please visit [www.gresearch.co.uk](http://www.gresearch.co.uk)



**Netcraft**

**GOLD**

### What We Offer

Summer Internship (1st Year)	✓
Summer Internship (2nd Year)	✓
3rd Year Industrial Placement	✓
Graduate Roles	✓

### About Netcraft

Netcraft is a world-leading internet services company based in Bath, England. We provide anti-cybercrime services for nearly three hundred customers worldwide, including large Internet companies (e.g. Microsoft, Netflix), banks (e.g. HSBC, BNP Paribas, Deutsche Bank), retailers (e.g. Visa, Marks and Spencer, Home Depot) and the British Government.

We also provide similar services to smaller companies at the sharp end of internet financial crime, including leading crypto-currency exchanges and wallet providers (e.g. Coinbase & Blockchain), and several bona fide Nigerian banks.

Additionally, Netcraft performs security tests of websites and mobile applications, especially those that handle sensitive

financial data, such as banks and shops. Our services protect some of the worlds most important institutions, and our phishing site feed is consumed by Google, Mozilla, Apple, Opera, and Microsoft. In the UK we work with the National Cyber Security Centre to provide highly automated countermeasures against all kinds of cybercrime.

### Opportunities

We're looking to recruit high performing software developers to join our team in Bath, England. We welcome internship applications from first and second years, as well as applications for industrial placements and graduate opportunities.

Projects involve working on a range of commercial services extending Netcraft's network exploration and internet security services.

Important attributes for successful candidates:

- A broad knowledge of internet technology, together with an attention to detail, and a desire to find things out empirically rather than rely on conjecture.
- A keen interest in network security, data mining, or web based user interfaces.
- Attention to detail, and a desire to find things out empirically rather

than relying on conjecture.

- Demonstrable programming ability and experience.
- Expressive verbal and written communication skills in English. Skills in other languages are welcomed.
- A well-developed sense of precaution: a person who likes to plan for the future with suitable programming abstractions, automated test suites & version control.
- Prior experience with any of MySQL, Perl, Python, Rails, Git, Puppet, Amazon Web Services, Javascript, CSS, or Unix systems programming would be helpful.

### Culture

- Intellectually challenging work. We're always trying to stay one step ahead.
- Have your voice heard. We rely on all employees to come up with great ideas for improvements and new services.
- Friendly, close-knit atmosphere. Most staff members are based in Bath, and we work together closely to achieve our goals.
- Performance-based bonuses. Bonuses are awarded for gaining competence in different areas of the business, making sales, or otherwise impressing.
- Free lunch. Fuel your brain.

Initially, your work will be based around solving short term issues and small development projects, which allows you to discover our information flows, routines and infrastructure. You'll also learn about our phishing workflow, how to construct regular expressions, augmenting our rule based systems, and how to perform takedowns.

From here, further options depend on interests and abilities: you could work on a larger development project, perform a Web Application Security Test, carry out a sales campaign, make improvements to an existing service, or make your own suggestion.

For students considering their final year projects, we're pleased to collaborate with students who have previously spent a summer or industrial placement working for us, on a project of mutual interest. Past projects have scored very highly, as we're able to provide support & careful guidance, a large range of data feeds, and domain-specific knowledge.

To find out more, please take a look at our recruitment booklet:

[www.netcraft.com/about-netcraft/jobs/NetcraftGraduateBooklet.pdf](http://www.netcraft.com/about-netcraft/jobs/NetcraftGraduateBooklet.pdf)

Interested? Apply by emailing your CV to [cv@netcraft.com](mailto:cv@netcraft.com)



## Next Jump

**GOLD**

### What We Offer

Summer Internship (1st Year)	✗
Summer Internship (2nd Year)	✓
3rd Year Industrial Placement	✓
Graduate Roles	✓

Next Jump, as a ‘Deliberately Developmental Organisation’, is on a mission to create highperforming workplace cultures across the globe. People development is at the heart of everything we do, and we follow this simple mantra:

**Better Me + Better You = Better Us.**

Next Jumpers train and improve themselves at work (Better Me) and use that knowledge to help others (Better

You), together we create a better world (Better Us).

Headquartered in New York, with our UK office based in London, our cutting-edge ecommerce platform is used by 30 million employees across Fortune 1000 companies and generates \$2 billion in sales every year. We use the revenue generated from this platform to fuel our social movement: changing workplace culture. We run ‘Leadership Academies’ and provide our technology as a platform to help organisations build adaptive learning teams.

We have helped a large range of organisations, varying from the Next Jump 6 GOLD likes of JP Morgan Chase, the Military through to schools and charities.

We focus on the development of our employees in 4 dimensions; known as the ‘PEMS’ framework. Physical – free gym membership + healthy breakfast/ snacks. Emotional – comentorship to train

your decision making and leadership programmes. Mental – technical workshops ran by senior developers, weekly presentations to get feedback on your projects from our CTOs and annual Hackathons. Spiritual – purposeful opportunities to volunteer at a local primary school and teach a STEM curriculum.

Additionally, over the last year with the pandemic, our business has been adapting to the changing economic climate - continuing to find ways to fulfil our mission through introducing our weekly Community Online Academy. This provides free online classes, to both children and adults, to help organisations and individuals to learn, develop, keep fit, and have fun all from the comfort of their home.

We are looking for well-rounded full stack web-developers who take initiative and work well in a fast-paced environment to join us! We offer full time positions, internships and 6-month placements (the role is open to students in their penultimate year / graduates). We screen for a wide array of skills from backend to front-end, as requirements for specific roles vary and you will move from project to project. Being adaptable is a must, and business and problem-solving skills are a big plus.

As an engineer at Next Jump you will be able to work across all parts of our e-commerce web platform and mobile apps and are encouraged to work with the entire stack. Don’t be surprised if you

are working with our dev-ops team to monitor caching performance for hotel searching with Grafana and Prometheus, and then working with the design team to improve the user journey on our travel platform UI in Vue.js!

We use a broad range of modern technologies, platforms and tools which power both our ecommerce platform and mobile apps. For example, our apps, built using Ionic Angular, are powered by cloud hosted micro-services running in Docker, using our preferred backend language, Golang. We leverage Solr to drive our e-commerce search engine and product catalogues, with Redis and Memcache allowing us to scale and serve our LAMP web application across the globe.

We aspire to develop next generation CEOs/CTOs, so if you are looking for a ‘not-yourotypical graduate job/internship’, then Next Jump’s the place for you! The deadline for applications is midnight Saturday, 31st October.

### Graduate:

<http://nextjump.applytojob.com/apply/NGcBbdRFwt/Software-Engineer-WebApplications?source=Imperial>

### Internship & Placements:

<http://nextjump.applytojob.com/apply/8Q372iGnIA/Software-Engineer-WebApplicationsInternship?source=Imperial>

## What We Offer

Summer Internship (1st Year)	✗
Summer Internship (2nd Year)	✓
3rd Year Industrial Placement	✓
Graduate Roles	✓

Thought Machine is solving one of the biggest problems in banking. Since we launched in 2014, our mission has been to liberate banks from outdated, legacy technology which makes it difficult for them to innovate.

Our flagship product, Vault, is a cloud-native, core banking engine built to run any type of bank - from established global banks all the way to new challenger banks. Vault is used by the likes of Lloyds Bank, Atom Bank and Standard Chartered.

## What it's like working here

tl;dr really awesome

Thought Machine prides itself on having an excellent internal culture that encourages continuous learning and high-quality work with enormous amounts of fun. As we continue to grow, we work hard to retain our unique culture

and quirky traditions which differentiate us from the rest.

You will benefit greatly from working in a world-class team. Working at Thought Machine is fast paced and team-oriented with an emphasis on delivering the highest quality work in every field. You will continue to learn valuable business and life skills to ensure you progress in your career.

We encourage an open, collaborative and transparent working environment across all levels of the organisation. On Friday afternoons, employees put down their tools, pick up a drink, and dial into our weekly DJ before Thought Machine Friday 'TMF' starts. TMF is a company-wide gathering where all employees have the opportunity to connect with each other, hear the latest company updates, ask questions, and celebrate success. On the last TMF of every month, the leadership team opens the floor to questions – from the tough to the trivial.

Our office is stocked with snacks, soft drinks and our hot drinks machines make everything from an espresso to an oat flat white. Thought Machiners have set up a wide range of sports and hobby clubs anyone can get involved in – ranging from football to cheese and wine club.

Our engineering roles are all based in our London office, located next to Old Street station.

## Placements and summer internships

Our 10-week summer internships are open to students who are in their second year or above who are studying Computing, JMC, EIE or some other engineering degree. We also offer six-month software engineering placements for third-year MEng students. Internships and placements will take place in our London office.

You will work in a team with our front end and back end engineers, using cutting-edge technology to deliver both client-facing and internal projects. You will develop ownership and responsibility for your own work and learn how to build software in an agile manner. You'll gain a wealth of knowledge, skills and experience while having lots of fun in our awesome work environment.

To be considered, you need to have some experience and a passion for one of Python, Java, or Go, or building applications with JavaScript (e.g. React). You will also have needed to have either taken part in a software engineering university project of considerable scale or contributed to an open-source project.

## Our technology

With a founding team drawn from Google, we have a deep culture of engineering excellence and we believe this will allow

us to achieve our hugely ambitious goal.

Vault uses a modern cloud-based microservice architecture built on Kubernetes and Docker. Our backend services are predominantly written in Golang, but we also use Python and Java. Our frontend web applications are built using React, TypeScript and GraphQL.

**Join us and make an impact on our mission to revolutionise core banking!**

## Questions?

[recruitment@thoughtmachine.net](mailto:recruitment@thoughtmachine.net)

## Want to apply?

Submit your CV on DoCSoc's Sponsors' Portal

## For more information,

go to [thoughtmachine.net/careers](https://thoughtmachine.net/careers)



# DRW

**DRW**

SILVER BESPOKE

## What We Offer

Summer Internship (1st Year)	✗
Summer Internship (2nd Year)	✓
3rd Year Industrial Placement	✓
Graduate Roles	✓

## WHO WE ARE

DRW is a diversified trading firm that utilizes our own capital and trades at our own risk. We bring sophisticated technology and exceptional people together to solve complex problems in

markets around the world and across many asset classes. With decades of experience, DRW has expanded globally while staying true to what has always set us apart...our ability to identify and capture opportunities by combining technology, research, and risk management.

## WHAT WE DO

Our knowledge of the markets, pricing and modeling skills, robust risk management, and application of technology work together to create liquidity, improve efficiency and capture opportunities in the global markets. Because we have no outside investors nor third-party funds, we can be innovative and nimble, while using our market experience to prudently manage risk. We have the team and infrastructure in place to drive business forward without the

inefficiencies that hold back other organizations. Not many places do things like we do, and we like it that way.

Our approach to technology is ambitious, yet pragmatic. Our teams are empowered to solve challenging business problems, collaborating with equally motivated traders and researchers to engineer the right solutions for the job. The result? Inventive, performance-driven systems and networks deployed across the globe.

Our continued focus on innovating, identifying and capturing opportunities has led to new strategies, businesses, and partnerships through real estate, venture capital and cryptoassets. Learn about DRW's subsidiary companies here.

## WE'D LIKE TO GET TO KNOW YOU

From tuition reimbursement, on-the-job training, and a customized portal comprised of over 25 years of collective wisdom, we offer a variety of learning opportunities tailored to you and the skills you want to hone, new things you want to explore or even ways to become a thought leader for one of your passions!

Check out what our interns had to say about their summer internships with us, as they had the opportunity to work on various desks, create

unique solutions to complex projects and shadow project mentors.

Are you a continuous learner looking to solve complex problems and make an impact? If so, we are currently looking for talented individuals like yourself to join our team for full time and part time roles.

Learn about our full-time and internship opportunities at <https://drw.com/oncampus>



Liquidnet

SILVER BESPOKE

What We Offer

Summer Internship (1st Year)	✗
Summer Internship (2nd Year)	✓
3rd Year Industrial Placement	✗
Graduate Roles	✓

Who are we?

Liquidnet is a next-generation fintech company. Powered by technology that helps drive institutional alpha, our trading and liquidity network intelligently and securely connects the world's investors with the world's investments.

Spanning 46 markets across the globe, we are the global institutional investment network. Since 2001, we have revolutionized the way the world invests—we champion efficiency, intelligence, and sustainability.

We pride ourselves on standing at the nexus of Wall Street and Silicon Valley, but with fewer than 500 employees globally, we're more like a start-up than a traditional bank or overgrown tech giant. Our employees influence decisions, direction, and growth from day one, and



are supported by the established and experienced credibility we've built for almost two decades.

Every day, our employees have opportunities for impact, growth, and success.

If this sounds like you, we seek intern and full-time talent in four key areas:

- Technology + Product
- Sales + Marketing
- Client Services
- Business Operations

What do we do?

We provide trading and liquidity solutions to position our members and clients for peak performance. Millions of individuals, organizations, and governments rely on financial markets to build wealth and secure their future.

Liquidnet's mission is to maximize everyone's potential by creating a more efficient market for global investments, while opening up new investment and liquidity opportunities.

Our buy-side trading solutions provide institutional trading services, products and workflows designed for specific roles and outcomes. Our Equity Trading Solutions are anchored by one of the world's largest pools of buy-side liquidity; since our founding in 1999, our equities network has grown to include more than 900 global Member firms that collectively manage \$16+ trillion in equity assets.

We connect traders and portfolio managers at over 540 Member firms who leverage our network to access natural liquidity in an environment designed to protect order information and prioritize size, while achieving better execution. Liquidnet Culture

A strong, vibrant culture drives our success. Liquidnet fosters an inspiring, inclusive workplace where talent is empowered to have local and global impact. And lots of fun. Disrupting markets and investment technology since 2001, Liquidnet is an established global fintech innovator. We operate at the intersection of entrepreneurial spirit and the credibility that comes with our years of experience. With fewer than 500

employees, we're still relatively small and nimble, leveraging our agility and efficiency to keep changing the world. Liquidnet culture encourages everyone to speak up and get involved. We always welcome new ideas and maximize your exposure to leadership and the industry. That's why our people are known as true trailblazers in a rapidly evolving business environment.

Liquidnet embraces a culture of learning, offering a wide range of resources and programs to support our teams and Members. We develop our people's value internally and in partnership with leading academic institutions around the world.



Optiver

SILVER BESPOKE

What We Offer

Summer Internship (1st Year)	✗
Summer Internship (2nd Year)	✓
3rd Year Industrial Placement	✗
Graduate Roles	✓

Optiver is a leading global market maker driven by technology. We provide liquidity to financial markets using our own capital at our own risk. We pioneer our own trading strategies and systems using clean code and sophisticated technology to trade a wide range of products.

In order to trade optimally, we need the most advanced technology, software and connections to the market. Our high performance, low-latency trading systems and algorithms are constantly evolving. We care about clean, pragmatic code and we strive to break complex problems down into simple solutions. Engineers at Optiver take ownership of the full stack of applications and the development life cycle. Working in collaboration with our Traders and Researchers, software can be deployed the same day providing immediate results and direct impact.

OUR GRADUATE OPPORTUNITIES

Would you like to work in a highly-skilled, passionate and driven environment where there is a high degree of freedom, responsibility and reward? If so, we have exciting opportunities awaiting you here at Optiver. These include the chance to start your career with us in a full-time role or gain an extended glimpse into Optiver and experience Technology here for yourself via our 8 weeks Summer Internship programme. Each position adds value to our core business, these include:

GRADUATE SOFTWARE ENGINEER-AMSTERDAM

You will be responsible for the full stack of applications and the full development cycle, granting a lot of ownership. From day one you will handle large sets of real-time data that require high performing and easily scalable systems. Our Tech Starters programme will help you develop your technical skills and enhance your knowledge on our business. You will be guided by a senior developer assigned as your mentor.

GRADUATE APPLICATION ENGINEER-AMSTERDAM

Application engineers are custodians of our Trading production environment. You will maintain, monitor and improve the reliability, scalability and performance of our in-house trading software. You will closely collaborate with Traders, Researcher and fellow engineers automating and making activities as consistent and simple as possible. You will constantly keep an eye on our trading activities, troubleshooting issues as they arise

SOFTWARE ENGINEER SUMMER INTERNSHIP- AMSTERDAM

If you plan to graduate in 2022, you can apply to be part of our summer internship where you will be responsible for your own project from day one, guided along the way by a senior developer assigned as your mentor interact closely with traders,

researchers and fellow engineers, directly impacting the end-results of the company. Join several lectures about trading and other departments to get a full understanding of our business.

Have a look at [this video](#) to get a glimpse of the Optiver internship experience and a virtual tour of our Amsterdam office.

TO JOIN US IN TECH YOU HAVE:

- An academic degree in Computer Science
- Engineering, Information Systems or equivalent
- Experience with programming in either C++, C# or Java
- (for the Software Engineer internship and graduate role)
- Experience with programming in Python (Graduate Application Engineer)
- An entrepreneurial attitude
- Strong communication skills
- The ability and desire to write simple and clean code
- The ability to be a team player who enjoys creative
- freedom and independence

Check our career page for Software Engineer Summer internship and fulltime graduate opportunities in our Amsterdam office! For any question feel free to reach out to Serena Riccomagno at [serenariccomagno@optiver.com](mailto:serenariccomagno@optiver.com).



# Bloomberg

## Bloomberg

SILVER

### What We Offer

Summer Internship (1st Year)	✓
Summer Internship (2nd Year)	✓
3rd Year Industrial Placement	✓
Graduate Roles	✓

Bloomberg is building the world's most trusted information network for financial professionals. Our core product, the Bloomberg Terminal, is an independent and unbiased source of information for our clients – everyone from C-Suite executives, traders, analysts, government officials, business heavyweights and news professionals around the globe.

5,000+ technologists and counting – are dedicated to advancing and building new solutions for the Bloomberg Terminal in order to solve complex, real-world problems. No other company processes the breadth and depth of financial data into meaningful and Bloomberg actionable information as well as we do. Our engineers, developers, and data scientists work together to roll out new software daily that integrates seamlessly and immediately into our clients' workflows. Our technology expertise is changing the world and makes a positive

impact in our local communities. Bloomberg engineers are active members of the open source community, contributing to and implementing open source code in our products. And, 85% of our company profits go directly to Bloomberg Philanthropies to support lasting change in the environment, government innovation, education, arts, and public health. We have the following roles available:

- Summer Internships:** 10-12 weeks long
- Industrial Placements:** 4 - 12 months
- Full Time Graduate Position**

# FACEBOOK

## Facebook

SILVER BESPOKE

### What We Offer

Summer Internship (1st Year)	✗
Summer Internship (2nd Year)	✓
3rd Year Industrial Placement	✓
Graduate Roles	✓

As a Software Engineer at Facebook, whether an intern or recent graduate, you will write code that impacts over 2 billion people around the world. You will join a small team of talented engineers and computer scientists to build new products and solve hard technical problems to give people the power to

build community and bring the world closer together. We're looking for people who:

### Move fast.

We ship code every day.

### Build things.

Take your ideas from whiteboard to prototype the same day.

### Take risks.

Push boundaries to have a big impact.

### Solve problems.

Think creatively and take on challenges at massive scale.

If you are interested in applying for SWE internship and graduate roles, please look at the role description and apply via: [facebook.com/careers](https://facebook.com/careers)

## Citadel

SILVER

### What We Offer

Summer Internship (1st Year)



Summer Internship (2nd Year)



3rd Year Industrial Placement



Graduate Roles



Citadel is one of the world's leading alternative investment managers. Citadel manages the capital of prominent investors from around the world including retirement programs, endowments and foundations, and sovereign wealth funds. Citadel Securities is a leading global market maker, delivering a broad array of fixed income and equity products to banks, broker-dealers, government agencies, corporations, insurers, and sovereign wealth funds. Analyzing global markets with discipline and focus, we employ a diverse range of strategies in an effort to bring capital to its fullest potential and deliver consistent investment returns of our clients. We do this by working harder, seeing farther, and by empowering the world's most talented minds with the tools and culture they need to achieve peak performance. Our firm is guided by its core values of championing honesty,

rewarding excellence, continuously learning, solving problems together, and earning the win. Learn more below about our business streams recruiting interns and graduates!

### Quantitative Trading

Curiosity gets you up in the morning – and your relentless drive to improve propels you through the day. You've got a healthy appetite for taking calculated risks and are passionate about the markets. You're also exceptional at statistics and math. Highly motivated, you can command a room by communicating advanced concepts in a concise way. You'll get to apply and hone your investment and trading skills in a structured program that allows you to work side-by-side with, and learn from, those who are thriving in the field.

### Quantitative Research

Our team of Quantitative Researchers analyze historical and current information through statistical and quantitative modeling, as well as predictive analytics, to identify and capture opportunities. Quantitative Researchers collaborate with technology, investment, and trading colleagues to consistently innovate

and help us reach greater heights. You'll get to apply and hone your quantitative skills in a structured program that allows you to work side-by-side with, and learn from, those who are thriving in this exciting and growing field.

### Software Engineering

Software Engineers create next generation software solutions to support business areas across the firm. Software Engineers work closely with business leaders to develop and deliver custom software solutions that optimize performance and efficiency. You'll get to apply and hone your engineering skills in a

structured program that allows you to work side-by-side with, and learn from, those who are thriving in the field.

Citadel and Citadel Securities are seeking intellectually curious students to apply for Quantitative Research, Software Engineering and Quantitative Trading roles. Please join us across our virtual events series to learn more about our team and firm, as well as our full time, internship and spring programme opportunities! Open positions, unparalleled opportunities, apply now at [www.citadel.com/careers/students/](http://www.citadel.com/careers/students/)



## Jump Trading

SILVER

### What We Offer

Summer Internship (1st Year)	✗
Summer Internship (2nd Year)	✓
3rd Year Industrial Placement	✓
Graduate Roles	✓

Jump Trading is a leading algorithmic trading firm built on cutting-edge technology, sophisticated quantitative research, and an entrepreneurial culture. Founded in 1999, Jump now has 700 employees across offices in Chicago, New York, London, Bristol, Amsterdam,

Singapore, and Shanghai. Jump is still privately owned and funded, fostering a culture of intellectual curiosity and learning. Our people are some of the world's most brilliant minds, with backgrounds from the trading industry, Silicon Valley tech companies and startups, top PhD programs and research labs. We have a 20-year history of investing in superior infrastructure, including custom hardware, low-latency software, wireless networks, and a world-class supercomputer. We've built custom technology to power our high-performance, distributed systems and to identify trends in massive data sets across global markets.

We offer internships and grad roles in:

### Software Engineering (C++)

For students interested in low-level, high performance C/C++ code on Linux, you like to build optimal solutions from scratch, and you have interests in networking, operating systems, and compilers.

### Embedded Systems Engineering

For students interested in low-level engineering and where it meets the world of hardware engineering. Especially suited for those with experience in C/C++, building custom solutions to highly complex problems, and a background in Electrical and Information Engineering.

### Data Engineering

For students who are not only very strong Python programmers, but also have an active interest in data science, cutting edge machine learning, and working in a growing, agile team, within a company that allows them the resources to work with cutting edge technologies.

### FPGA / Hardware Development

For students interested in building next generation, ultra-low-latency systems to power trading with machine learning and

other algorithms on a global scale. We value a blend of hardware engineering experience with exceptional software development skills to add value to our growing team.

### Production Engineering

For students who have exceptionally strong skills in Python, Linux, troubleshooting, networking, and creative problem solving. We also highly value students who love to tinker with new technology – many team members have been contributors to open source projects.

### Web Dev/UI Development

For students interested in using advanced JavaScript, Python, and modern Web frameworks to build Web-based applications that interact with several components of our real-time trading platform.

Visit the job board on our website [jumptrading.com](http://jumptrading.com) and apply to "Campus" positions OR get in touch with Nik at [nikbanerjee@jumptrading.com](mailto:nikbanerjee@jumptrading.com) if you want to learn more!

# GRAPHCORE

## GraphCore

SILVER

### What We Offer

Summer Internship (1st Year)	✓
Summer Internship (2nd Year)	✓
3rd Year Industrial Placement	✗
Graduate Roles	✓

### Who are we?

Founded in 2016 by Nigel Toon and Simon Knowles, Graphcore is a semi-conductor scale up. Our teams have created a completely new processor designed for AI compute – the Intelligence Processing Unit (IPU). Over the last four years we’ve scaled rapidly, now employing over 400 people globally with our Headquarters based in Bristol.

### What do we do?

#### OUR IPU LETS INNOVATORS CREATE THE NEXT BREAKTHROUGH IN MACHINE INTELLIGENCE

Graphcore has created a completely new processor, the Intelligence Processing Unit (IPU), specifically designed for artificial intelligence. The IPU’s unique architecture means developers can run

current machine learning models orders of magnitude faster. More importantly, it lets AI researchers undertake entirely new types of work, not possible using current technologies, to drive the next great breakthroughs in general machine intelligence.

We believe our IPU technology will become the worldwide standard for artificial intelligence compute. The performance of Graphcore’s IPU is going to be transformative across all industries and sectors whether you are a medical researcher, roboticist or building autonomous cars.

Our team is at the forefront of the artificial intelligence revolution, enabling innovators from all industries and sectors to expand human potential with technology. What we do, really makes a difference.

### Our Graduates

As a Graduate, you will have the opportunity to work on high-profile and meaningful projects from day one. We have developed a programme that allows you to enjoy on the job experience as well as building your knowledge through a comprehensive and tailored training and development plan.



*“We are at the cutting edge of technology; I believe that we are at the beginning of an engineering revolution which is very exciting.”*

#### Mrudula – Silicon Engineer

##### Working at Graphcore

There is a large amount of social activities from cycling, yoga, running and football right through to a board game group.

We also have a company social evening every 3 weeks where all employees can come together outside of the workplace.

*“One of the aspects I enjoy the most about working at Graphcore is everyone is happy to help and answer your questions.”*

#### Arianna – Customer Support Engineer

#### 2021 Opportunities – Graduate and Interns (Bristol)

We have opportunities available for graduates to join our HQ in Bristol, in a variety of teams – Silicon

Engineering, Product Support, Software, Product Test.

### What we look for:

- Studying Computer Science, Electrical & Electronic Engineering, Physics or Mathematics
- Experience of using C++ and/or Python
- Active interest in semi-conductors, AI & Machine Learning

We also have some great intern opportunities for summer 2021, which are open to all year group students. This will allow you to gain some hands-on experience, and put your university learning into practice, with a 10-week summer internship.

Graduate applications open winter 2020 and Internship applications open early 2021

Interested in exploring opportunities, please visit: <https://www.graphcore.ai/careers>

If you have any questions, please email: [students@graphcore.ai](mailto:students@graphcore.ai)



## Microsoft

SILVER

### What We Offer

Summer Internship (1st Year)



Summer Internship (2nd Year)



3rd Year Industrial Placement



Graduate Roles



At Microsoft we are passionate about technology that empowers people around the world to achieve more. We are currently offering full time and internship opportunities to students to help us develop technology solutions that will have an impact on billions of people.

Do you have a bachelor's, master's, or doctorate degree in engineering, computer science or related field? How about a year or two of experience programming in C++, Java or other computer programming languages?

If you've answered yes to the above and have strong technical prowess, plus the ability to think unconventionally to derive creative and innovative solutions, then we want to see your application! To gain real experience in software development apply asap!

Apply at [microsoft.com/university](https://microsoft.com/university)

## Microsoft is hiring!

**Full-Time & Internship Opportunities**  
Norway, Denmark, Ireland, Germany, Estonia, Czech Republic, the UK and US

You only need to apply to one location, and we can consider you for all.

PDT Partners has had significant success over the past 25+ years as a quantitative investment manager by using a scientifically rigorous approach to develop and deploy trading strategies. Our technology team consists of software, systems and data engineers. We're looking for bright and uniquely excellent engineers to be part of a talented and creative community. You may be able to help us as we strive to be one of the best investment managers in the world.

Prior experience in finance isn't expected, but we do look for intellectual curiosity that runs deep. Our technologists work together in small teams on challenging real-world problems, contributing to our technology-critical algorithmic trading business. We build applications using C++, Python and Java, as well as the latest cloud and open source technologies.

We're also committed to being a fantastic place to work. Our engaging and unique culture is critical to our success and longevity. Some of the key values that define us are:

### **Collaboration** -

PDT actively fosters a culture of collaboration and innovation. We believe the best solutions arise from teamwork, candid debate, and open sharing of knowledge and ideas.

### **Shared Success** -

Our success is shared across the firm; we recognize, appreciate, and reward the contribution and impact that PDTers make.

### **Partnership** -

Our open partnership structure reinforces

# PDT PARTNERS

## PDT Partners

SILVER

### What We Offer

Summer Internship (1st Year)



Summer Internship (2nd Year)



3rd Year Industrial Placement



Graduate Roles



a culture of merit and ownership and allows us to attract, reward, and retain the next generation of PDT leaders.

### **Diversity** -

We celebrate the diverse and rich set of skills, backgrounds, and interests that PDTers bring.

### **Fun** -

We believe work is but one part of a full life - we support professional and personal well-being. PDTers get together for family picnics, wine tastings, poker tournaments, fun runs, board-game nights and many more!

### **Giving Back** -

Tutoring of school students, our charitable donation matching, and philanthropic partnerships are some of the ways we contribute to the larger community.

If you are a MEng Computing Student looking for a 6-month Industrial Placement please send your CV to [imperial2021@pdtpartners.com](mailto:imperial2021@pdtpartners.com)

# showcode<sup>ⓧ</sup>

Each coding challenge will be sponsored and created by employers like Cisco and Goldman Sachs, who are looking for the next generation of great tech talent.

## ShowCode

SILVER

Join Team Imperial for Unicode 20/21 for the chance to win prizes, interact with some of the UK's biggest tech employers, and compete with student coders from around the world.

You'll go head-to-head in bi-weekly fixtures against teams like Oxford and Cambridge, so make sure you sign-up and give Team Imperial the best chance of winning

<https://www.showcode.io/unicode/>

# UNICODE 20/21 COMPETITION!!

84 Universities. 6 Leagues. 1 Winner.

 Win a trip to San Francisco

 Showcase your ability to UK's largest tech employers

 Add to your GitHub

[www.showcode.io/unicode](https://www.showcode.io/unicode)

At StarLeaf, we bring people together from anywhere with world-class video meetings. Whether it's meeting room systems or desktop and mobile apps, our intuitively simple, secure and reliable solutions make meetings effortless.

StarLeaf is a dynamic and vibrant place to work; we're growing fast, in an exciting and rapidly changing market. We've been in The Sunday Times Tech Track 100 for the last four years, and in 2019 we were recognized as a Visionary in the Gartner Magic Quadrant for Meeting Solutions.

And while a lot has changed since StarLeaf was founded in 2008, collaboration, creativity and inclusivity are still a key part of our culture. We believe everyone at StarLeaf has a part to play in our



## StarLeaf

SILVER

### What We Offer

Summer Internship (1st Year)	✓
Summer Internship (2nd Year)	✓
3rd Year Industrial Placement	✗
Graduate Roles	✓

success and should be rewarded for their contribution. This is why every single permanent StarLeaf employee becomes a shareholder through the company's share option scheme.

**Two Sigma**

SILVER

**What We Offer**

Summer Internship (1st Year)	✗
Summer Internship (2nd Year)	✓
3rd Year Industrial Placement	✗
Graduate Roles	✓

**Calling all scientists, engineers, & academics!**

Two Sigma is a financial sciences company. We combine rigorous inquiry, data analysis, and invention to solve the toughest challenges across financial services. We're looking for people who see beauty in data and the possibilities it reveals. Researchers who see connections and patterns in unexpected places. Engineers who build tools that channel massive amounts of data into insights. And experts across business disciplines to help solve the toughest challenges in investment management, insurance, market-making, private equity, and venture capital.

**Engineering**

Build the tools and technologies that enable us to scale. Solve complex engineering challenges to turn data into action.

**Quantitative Research**

Develop inspired ideas through scientific thinking, curiosity, and precision. Systematically test and expand hypotheses to shape company strategy.

**Strategy & Operations**

Grow our business around the world through creative thinking and operational excellence.

**Data Science**

Seek out patterns and trends in the world's data. Then harness these insights to help us forecast the movement of global markets.

**Investment & Client Solutions**

Deliver our investment services and innovative solutions to a diverse client base.

**Life at Two Sigma**

At Two Sigma, we're proud of our company culture: a collaborative and diverse environment that challenges and empowers our employees to find smart solutions to the world's hardest problems.

We want to help everyone here grow and get better, so we offer a myriad of internal programs and initiatives that encourage teaching, growth, and mobility.

**SEEK:**

**Calling all scientists, engineers, & academics**



**NewTS**

Two Sigma's Early Careers Program (NewTS) integrates Engineering and Modeling campus hires into life at Two Sigma.

**Interns**

Spend the summer working in a creative and hands-on environment that gives you the freedom to innovate, explore,

and dig into unique and complex challenges.

Headquartered in New York City, we also have global offices in Houston, London, Shanghai, Tokyo, & Hong Kong. Begin your career at Two Sigma and apply online at [twosigma.com/careers](https://twosigma.com/careers)



## VMware

SILVER

### What We Offer

Summer Internship (1st Year)



Summer Internship (2nd Year)



3rd Year Industrial Placement



Graduate Roles



### What we do?

Curiosity is in our DNA, and innovation is our superpower. We turn the impossible into the essential. And prove that yes, this can be done.

We solve the hardest problems with software that reinvents the foundation of computing. Liberating organizations from physical constraints. Helping them accomplish the missions that move them forward. Freeing them to shape an unlimited future.

That's why the companies that run the world run on VMware and 98% of fortune 500 companies use our products.

We enable a culture of possibility so customers can build what they need, the way they need it. We do it with sleeves rolled up, tackling the tough stuff. So we're all free to scale at speed, seize the

day, and secure tomorrow.

The intent of all our efforts and energy is to be a force for good. Transforming visions into reality. Empowering everyone to challenge the status quo. Helping each of us shape the future into whatever we dream it to be.

### Work here. Transform everywhere.

The most advanced companies in the world turn to VMware to manage, grow and transform their business. When you work here, you're connected to a global community of innovative, empowered employees working together to solve the most critical technology challenges. Here, your talents are amplified—for the good of your career and the good of each other. Here, you're surrounded by a culture of possibility, where ideas ripple out and have a positive impact on customers and communities everywhere.

### New Intern/Graduates roles at VMware

At VMware, you'll be inspired. You'll be challenged. You'll discover your path. And you'll join a culture of possibility, one with the network and opportunities to amplify your talents. Work with our team and make a positive impact on customers and communities everywhere. VMware have intern and

graduate roles to suit everyone from diverse backgrounds ranging from **Sales** where you help customers identify their needs, **Pre-Sales Solutions Engineer**, where you design technology solution for digital transformations, all the way to **Professional Service and Delivery** where you would be onsite implementing solutions with our customers , as well as for **Software Developers** in R&D roles working on cutting edge technology. Our sales roles will be based in our Digital Sales Centre in Barcelona, our Professional Service and Delivery role will be based in the UK and the R&D roles will be based in Bulgaria.

Check out the roles at our career site <https://careers.vmware.com>, find the role you want, apply and make sure you add one of us recruiters on Linked In and say hi!

When you work here you will receive:

### • Continuous Learning

Innovation is what moves us forward. With the VMware team, you'll have access to our latest products and systems, receive customized professional development opportunities, and work alongside your coworkers to ensure that you have the business intelligence to be successful everywhere.

### • Dedicated Mentorships

Throughout our Mentor Exchange program, you'll have countless opportunities to build and share your skills with others in the VMware community. Whether you're interested in connecting with someone in a role of interest to you, or is further along in their career journey, we're here for you as you grow at VMware.

### • Our EPIC Culture

Taking care of who you are is as important as taking care of our customers. When you work here, you'll be a part of a community of people who prioritize an integrated experience – on the job, in the community, and around the world. Think big and share your ideas while feeling empowered to bring your full, authentic self to work here. That's what makes who we are at VMware epic.



**CrowdStrike** **BRONZE BESPOKE**

What We Offer	
Summer Internship (1st Year)	✗
Summer Internship (2nd Year)	✓
3rd Year Industrial Placement	✗
Graduate Roles	✗

**ABOUT US**

CrowdStrike was founded in 2011 to fix a fundamental problem: The sophisticated attacks that were forcing the world's leading businesses into the headlines could not be solved with existing malware-based defences. Co-founders George Kurtz and Dmitri Alperovitch realized that a brand-new approach was needed — one that combines the most advanced endpoint protection with expert intelligence to pinpoint the adversaries perpetrating the attacks, not just the malware.

**SUMMER INTERN PROGRAM**

CrowdStrike isn't just the next step in navigating your career—it's a quantum leap forward. Join us on our mission to stop breaches by checking out our Summer Internship Program.

The CrowdStrike Global Summer Intern Program offers international collaboration, impactful projects, real-life scenarios, mentoring, an executive speakerseriesanduniquesocialactivities. In addition, you can expect competitive pay, holiday pay and development and wellbeing workshops. CrowdStrike has recently been recognized by FORTUNE as *Best Workplace in Technology and for Millennials 2020*.

Program duration is usually 10-12 weeks and internship tracks include Engineering, Data Science, Incident Response, Red Teaming, Intelligence and much more! Upon completion of our intern program, we may also offer opportunities to secure graduate positions— continuing your CrowdStrike journey.

If you'd like to secure your career with the global leader in cyber security, go ahead and discover an internship with us today.

**APPLY NOW**

Apply via our Careers Page <https://www.crowdstrike.com/careers/university-interns/>

Find Out More: [university.Recruiting@crowdstrike.com](mailto:university.Recruiting@crowdstrike.com)



**Bank of America** **BRONZE**

What We Offer	
Spring Insight (1st Year)	✓
Summer Internship (2nd Year)	✓
3rd Year Industrial Placement	✓
Graduate Roles	✓

**Shape your world with us**

We know it's important to work for what matters. Here, you'll discover a career with global and local impact. You'll work in a collaborative team with responsibilities from day one, and plenty of opportunities to shape your career. And, through our networks, clubs and events you'll find friendships and experience our wonderfully inclusive culture.

**What you'll do with us**

The worlds of sustainable finance, workplace culture and technology are evolving fast. Together we can shape them to be smarter, greener, safer and more inclusive.

From apprenticeships to internships, industrial placements to full-time roles, you'll find an opportunity to lead change with us. Our Insight program will help you learn and grow in a whole new way

while you're at university, and through our summer internships, you'll discover what worlds you'd like to shape when you start your career.

Our analyst and associate graduate programs are where you'll start to really make an impact. You'll create a career that works for you, with opportunities to start your journey in a range of areas: Compliance, Corporate Audit, Corporate Treasury, Global Corporate & Investment Banking Credit, Global Corporate & Investment Banking, Global Markets, Global Research, Global Transaction Services, Market Risk, Quantitative Management and Technology.

**Our recruitment process**

Analyst internship and full-time recruiting takes place on a rolling basis once our applications are open. Assessments often begin before the deadline, so it's best to submit your application early as this will give you the best chance of being considered for the role.

We care deeply about shaping the world of work to be an equal and inclusive one – and that starts with our recruitment process. We know just how important and valuable it is to have a wide range of skills, backgrounds and experiences shaping our work and ideas. We welcome applicants from all backgrounds, and we're proud to focus on attracting, retaining and developing diverse talent within Bank of America. Together, we aim to mirror the customers, clients and communities we serve.

IMC is a leading global market maker, using algorithmic trading and advanced technology to buy and sell securities on multiple trading venues worldwide. We provide liquidity to the financial markets, driving efficiencies for buyers and sellers.



## IMC Trading BRONZE

What We Offer	
Summer Internship (1st Year)	✗
Summer Internship (2nd Year)	✓
3rd Year Industrial Placement	✓
Graduate Roles	✓

We operate globally from offices in Europe, the US and Asia Pacific. Our employees work closely together in multidisciplinary teams, making our success possible.

**Technology** - At IMC, technology is not a department, it is at the heart of everything we do. Our technologists push the limits of possibility, and then look beyond. In our fast-paced environment, short feedback loops mean projects worked on in the morning can enter production the next day.

**Trading** - Although our traders come from many backgrounds they all have one thing in common: they are at their best solving complex problems. Their insight into global events, market shifts and pricing ensure we are trading in the right place, at the right time.

Discover our internship and graduate opportunities at [careers.imc.com](https://careers.imc.com).



## London Stock Exchange Group BRONZE

What We Offer	
Summer Internship (1st Year)	✓
Summer Internship (2nd Year)	✓
3rd Year Industrial Placement	✓
Graduate Roles	✓

## London Stock Exchange Group – Grow your career at market speed

London Stock Exchange Group (LSE.L) has a long, prestigious heritage that few organisations around the world can rival, dating back to 1698. Since then, we have grown to become one of the world's foremost financial market infrastructure and capital markets groups, and a global leader in new financial technology (FinTech). Headquartered in London, our geographic footprint extends to more than 25 cities worldwide, and more than 60 nationalities are represented by our 5000-strong workforce.

As we continue to expand and diversify, we are looking for the next generation of talented, ambitious graduates to help us shape the future of LSEG. You will get direct exposure to the exciting developments and innovations happening within finance and technology, putting your problem-solving skills to use and helping to drive our growth.

To find out more about the broad range of opportunities on offer at London Stock Exchange Group, visit [lseg.com/graduates](https://lseg.com/graduates)

Apply before 6 December 2020 to take your first steps towards a position on either our graduate or internship programmes. We do recruit on a rolling basis and encourage early application.



## Jane Street BRONZE

What We Offer	
Summer Internship (1st Year)	✓
Summer Internship (2nd Year)	✓
3rd Year Industrial Placement	✗
Graduate Roles	✓

Jane Street is a quantitative trading firm and global liquidity provider. Our trading is based on mathematical modeling and strategies and we use innovative technology, a scientific approach, and a deep understanding of markets to stay successful. With over 1000 employees in our New York, London, Amsterdam, and Hong Kong offices, that's a lot of ideas. Our next great idea could come from you; what will you come up with?

### What We Offer

Summer Internship (1st Year)	✗
Summer Internship (2nd Year)	✓
3rd Year Industrial Placement	✓
Graduate Roles	✓

Palantir Technologies builds the world's leading platforms for data-driven operations and decision-making, Palantir Gotham and Palantir Foundry. More than 2500 Palantir employees work in offices around the globe, including in Palo Alto, Washington D.C., New York, London, Paris, Sydney, Tokyo, Abu Dhabi, and São Paulo.

Palantir was founded in 2004 by three software engineers and a philosopher to help intelligence agencies make better use of data while preserving privacy and civil liberties. Our first product was Palantir Gotham, a platform that helps users find bad actors hiding in complex networks, such as terrorist cells, trafficking rings, and money laundering schemes. Our early success in government led us to work with commercial companies, international governments, and nonprofits. In 2014, we introduced Palantir Foundry, a platform that brings organizations together around data to transform how

they operate.

Today, our partnerships power critical operations for defense and civilian government agencies worldwide and commercial companies in dozens of industries. We also donate our software and services to select nonprofits dedicated to improving human lives.

We develop long-term partnerships with organizations, working together to help them realize the value in their data. Unlike other Silicon Valley companies that try to “disrupt” established industries, we help the institutions that power our economy become more modern and data-driven. We believe that the most effective transformation starts with humans, and our approach is built around empowering them. Together with our customers, we seek out the most important problems, find the people responsible for solving them, and arm them with our technology. The results speak for themselves:

- Manufacturers are connecting local decisions with global ones, from the factory floor to the C-suite.
- Healthcare institutions are accelerating the rate of scientific discovery.
- Banks are growing business while minimizing risks.
- Defense organizations are bringing intelligence to the tactical edge.

- Complex multinationals are optimizing global logistics and boosting customer satisfaction.
- Law enforcement agencies are bolstering security without compromising on data protection.
- Traditional media organizations are staying ahead of disruptive change in their organizations.

Palantir interns work alongside full-time employees, and challenged accordingly with high-impact work. We're looking for purpose-driven individuals who enjoy learning and working independently. It doesn't matter what languages you know when you join us, but it does matter that you can pick new ones up quickly, as Palantir engineers often face novel problems whose solutions demand new skillsets. Beyond technical skills, Palantir engineers work with people from a variety of backgrounds, both internally and externally. You may find yourself in situations that require empathy, collaborating not just with other engineers but with users and non-technical stakeholders.

You'll have a mentor by your side all summer who helps you navigate Palantir and fosters your growth as you take on these challenges, from learning new technical skills to engaging with different individuals. At the same time, you'll be granted the space to think for yourself, and trusted to effectively manage your own time and priorities.

More information is available at [www.palantir.com/students/](http://www.palantir.com/students/)



Produced by Chloe Lau  
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