



# **JOBS FOR MATHEMATICIANS CAREERS FAIR 2024**

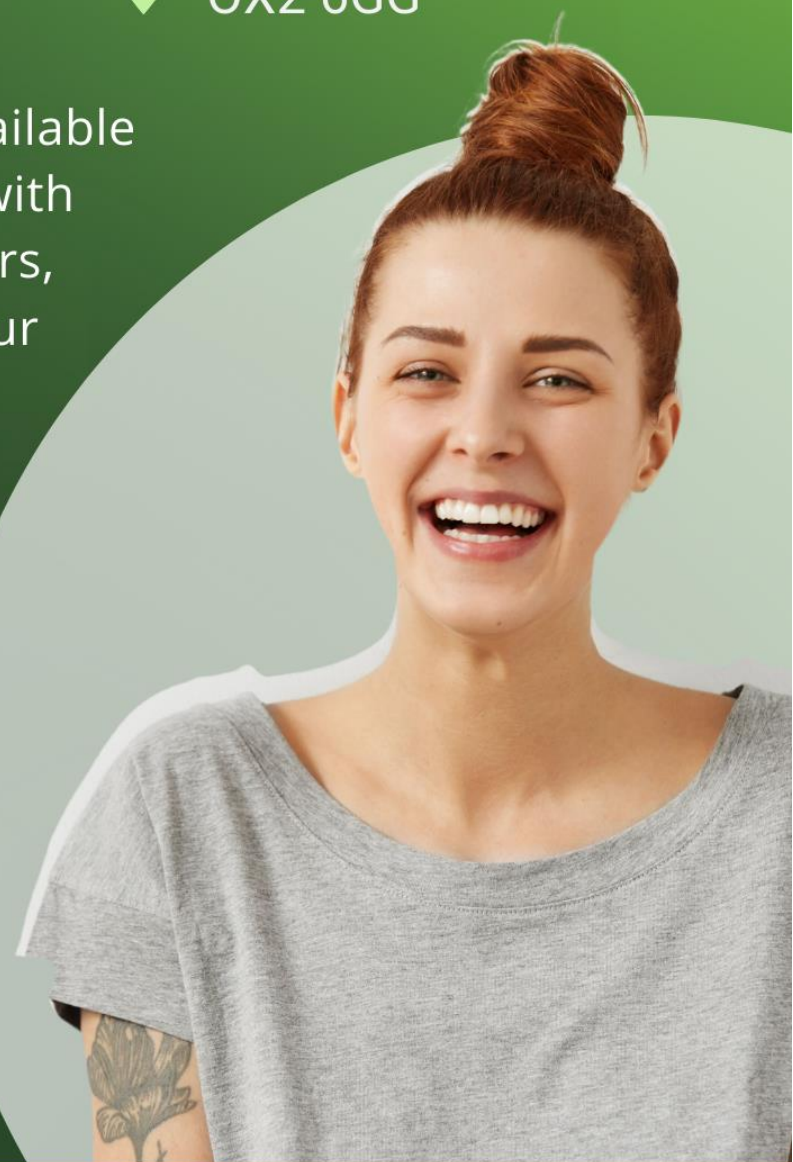


Tuesday 19 November  
16:00-18:00



Mathematical Institute  
OX2 6GG

Explore the opportunities available to mathematicians, interact with recruiters and careers advisers, and ask questions to help your decision making.



[www.careers.ox.ac.uk/jfm](http://www.careers.ox.ac.uk/jfm)

# Welcome to the Jobs for Mathematicians Fair

The Oxford University Jobs for Mathematicians careers fair offers you the opportunity to find out about careers using maths and start planning your next career steps or focus your search.

At the fair, you can meet recruiters, explore the opportunities available, chat to Oxford University careers advisers, and ask questions to help your decision-making.

## Top tips

Use this booklet to plan your fair tactics:

- Check who is attending and read their booklet entry before you speak to them.
- Plan some questions to ask. For example: what are the pros and cons of their work? or, what tips can they give you to increase your chances of being selected for work experience or employment?
- Be keen and attentive – first impressions count!
- Talk to as many people as you can.
- Remember to record who you spoke to and key points of your conversations.

Read more on how to **make the most of a careers fair**.

# Exhibitors

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Aligned AI .....	5
APR .....	6
Citadel .....	7
d-fine .....	8
Da Vinci .....	9
DRW .....	10
Five Rings .....	11
G-Research .....	12
GSA Capital .....	13
HSBC .....	14
IMC Trading .....	15
Jane Street .....	16
Newton .....	17
Oliver Wyman .....	18
Optiver .....	19
OxFORD Asset Management .....	20
Pythia Sports .....	21
QRT .....	22
Rokos Capital Management .....	23
Smith Institute .....	24

Susquehanna International Group Limited (SIG) .....	25
Teach First .....	26
The Phoenix Partnership (TPP) .....	27
Wincent.....	28
Xantium.....	29

## Aligned AI

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HQ'ed in Oxford, Aligned AI is a rapidly growing startup AI fundamentals lab innovating to make artificial intelligence safe, ethical and empowering in both the long and near term and deliver these technologies to extend human potential.

We believe AI has the power to radically enhance human potential. We are working to ensure that the development of AI safely and democratically empowers every human being.

The challenge of getting AIs to follow human values not only must be solved, but can be solved, and will be solved. We have put a mission-locked clause in our company charter that means we will never increase AI capability more than safety.

Aligned AI is female founded and led. It was rated by Fortune Magazine as one of the world's Top 50 Innovators in AI in November 2023 and winner of the CogX award for Innovation in Mitigating Algorithmic Bias.

Internships and graduate places available.

## ALIGNED AI

Find out more at: <https://buildaligned.ai/>

## APR

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APR specialises in providing high quality actuarial solutions to assist clients when they need additional support. Our clients are characteristically large blue-chip UK financial institutions. The distinguishing features of our graduate scheme are early opportunities for direct exposure to our key clients, the variety of work gained by moving between different clients and different actuarial projects, and our genuine commitment to ongoing training and development of our staff.



Find out more at: <https://aprllp.com/graduate-associate-scheme/>

## Citadel

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Citadel is a leading investor in the world’s financial markets. For over a quarter of a century, we have sought to deliver industry-leading investment returns to clients including corporate pensions, endowments, foundations, public institutions, and sovereign wealth funds. Our global team works to help our clients’ capital fulfill its greatest potential across a diverse range of markets and investment strategies, including fixed income & macro, equities, quantitative, commodities and credit. For more information, visit [Citadel.com](https://www.citadel.com).

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. Through innovation and efficiency, the firm provides liquidity with the goal of driving price discovery in more than 35 countries and making markets more competitive, open, and transparent. Since its founding more than 15 years ago, Citadel Securities has cultivated a culture of excellence, assembling the brightest minds in trading, technology, and the sciences to make better markets for a better world. For more information, visit [CitadelSecurities.com](https://www.citadel.com).



Find out more at: <https://www.citadel.com/careers/open-opportunities/>

## d-fine

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d-fine is a European consulting company with over 1,500 employees and a growing international presence with eleven offices distributed across seven countries. Our projects focus on quantitative challenges in data analytics, data science, modelling, and the development of sustainable technological solutions. Our approach is based on over 20 years of practical experience and dynamic teams with an analytical and technological focus.

Our tasks, projects, clients and working models are diverse. We work as a team on-site at the customer, together at one of our offices or remotely in virtual project rooms.

To expand our Consulting & Solutions teams, we are looking for students/graduates of physics, mathematics, computer science or natural sciences, engineering and economics with quantitative or technological specializations. You must have a very good academic record, be fluent in English and have a high mathematical and/or technological affinity. In addition to strong analytical skills and a results-oriented approach, we attach great importance to social competence. Collaboration and cooperation are part of our company philosophy and is reflected in our work structures, employee development and incentive schemes.

Joining d-fine is possible throughout the whole year at the beginning of each month. After our intensive onboarding program, which lasts several weeks, you will join a (project) team working for our customers.

Our aim is that you feel at home with us and are motivated for the long term. That is why we offer you, in addition to exciting tasks and projects, a collegial team, attractive career and salary model, as well as a wide range of additional benefits, such as our extensive training program as part of the d-fine Academy.

## d-fine

Find out more at: <https://jobs.d-fine.com/en/jobs/76/consultant-uk>



## Da Vinci

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Da Vinci was founded in 2015 by three friends with significant experience and enthusiasm for trading and has been growing successfully ever since. We are a unique proprietary trading firm, focusing on volatility trading, arbitrage and market making across major exchanges worldwide. We identify opportunities, trade volatility based on in-house developed strategies and provide liquidity to the markets thus making them more efficient.

Our philosophy towards work is best captured by the saying "Be good, work hard and great things will happen". We are meritocratic by nature and believe that empowering talent in our organization is the only way forward. As part of our team, you will build trading algorithms, implement new strategies in the market, analyze trades, continuously improve how we do things and come up with new innovative ideas to contribute to reaching our ambitious goals.

## DA VINCI

Find out more at:

[https://davincitrading.com/careers/?\\_sft\\_locations=amsterdam](https://davincitrading.com/careers/?_sft_locations=amsterdam)

## DRW

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We are a diversified trading firm innovating across both traditional and cutting-edge markets. We deploy sophisticated technologies to make markets more efficient, transparent and fair. This is possible because we have some of the sharpest engineers, technologists, traders and professionals in the world.



## DRW

Find out more at: <https://drw.com/>

## Five Rings

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Five Rings is a quantitative proprietary trading firm founded with a vision of combining strategy, innovation and technology to succeed in today's global markets. Five Rings trades in various domestic and international markets, both established and esoteric.

Our team constantly seeks new opportunities, analyses their risks and rewards, and creates strategies and tools to capitalize on them. We have an open culture and encourage the flow of knowledge and ideas between all areas of the firm. New hires work both independently and with others to develop ideas and analyses, and integrate them into our trading strategies and systems. Our firm is a meritocracy and progress in both responsibility and compensation is rapid for those capable of demonstrating excellence in their particular field. Five Rings does not depend on clients or outside investors. The strength of our firm comes from the talent of our people. Our highly competitive compensation package reflects this belief.



Find out more at: <https://fiverings.com/careers/>

## G-Research

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Do you want to tackle the biggest questions in finance with near infinite computer power at your fingertips? G-Research is a leading quantitative research and technology firm, with offices in London and Dallas. We are proud to employ some of the best people in their field and to nurture their talent in a dynamic, flexible and highly stimulating culture where world-beating ideas are cultivated and rewarded.



Find out more at: <https://www.gresearch.com/vacancies/>

## GSA Capital

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GSA Capital combines a world-class proprietary platform with innovative thinking to develop and deploy systematic and process-driven investment strategies across all asset classes, geographies, and timescales. We are a collaboration of approximately 150 people. Over 60% of our staff work in research or on developing technology necessary to enable and monetise our research. We are an eclectic mix of mathematicians, scientists, programmers, economists, and a great deal more. At GSA we reward people based on merit and excellence, not necessarily on experience. We avoid the bureaucracy of larger organisations and keep our management structures flat. Decisions are made efficiently and changes are implemented quickly. People who work here enjoy a culture of trust, innovation, and scientific rigour. It is a friendly, open place where people are motivated because they enjoy what they are doing.

**Opportunities available:** Quantitative Strategists, Software Engineers, Algorithm Developers

**Graduates Sought:** Students of all academic levels from STEM disciplines

**Vacation work:** Internships available for undergraduate or postgraduate students

**Sponsorship:** We offer sponsorship for suitable prospects



Find out more at: <http://www.gsacapital.com/>

## HSBC

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Our purpose - opening up a world of opportunity – explains why we exist. We’re here to use our unique expertise, capabilities, breadth and perspectives to open up new kinds of opportunity for our customers. We’re bringing together the people, ideas and capital that nurture progress and growth, helping to create a better world – for our customers, our people, our investors, our communities and the planet we all share.

With a network spanning over 60 countries and territories at HSBC you can work across global boundaries and build a thriving career that goes way beyond banking. Whether you’re developing your skills to become an Investment Banker, Relationship Manager, Cyber Security Specialist, or Data Analyst, you’ll get the training, global connections and support you need to succeed. Join a global community of over 200,000 colleagues and be part of something bigger.



Find out more at: <http://campus.recruitment@hsbc.com/>

## IMC Trading

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No siloes. No hierarchies. Just great ideas. As a leading global market maker, IMC uses algorithmic trading and advanced technology to buy and sell securities on multiple trading venues worldwide.

Across Europe, the US, and Asia-Pacific, our technologists and traders collaborate to explore, design, and develop the software, hardware, advanced networks, and algorithms that drive our trading strategies and provide essential liquidity to financial markets.

Our enduring success is testament to the strength of our values. We fuse creative freedom, open feedback, and quick iteration to empower some of the world's most talented people. We recognize the best ideas today – and collaborate across teams, borders, and time zones to make them even better tomorrow. And while we work hard, we have lots of fun doing it.



Find out more at: <http://carees.imc.com/>

## Jane Street

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Jane Street works differently. We are a quantitative trading firm active on more than 200 trading venues across 45 countries. As a liquidity provider and market maker, we help form the backbone of global markets. Our approach is rooted in technology and rigorous quantitative analysis, but our success is driven by our people.

Markets move fast. Staying competitive as we've grown has required constant invention—of new trading strategies, technology, and processes. We've found this is easier when you hire humble, kind people. They tend to help each other and prioritize teamwork over titles.

People grow into long careers at Jane Street because there are always new and interesting problems to solve, systems to build, and theories to test.

### London, Hong Kong, New York

**2025 Summer Internships:** Quantitative Trader, Quantitative Researcher, Software Engineer, Strategy & Product, Linux Engineer, FPGA Engineer, and other tech roles

**2025 New Grad Opportunities:** Quantitative Trader, Quantitative Researcher, Software Engineer, Strategy & Product, Linux Engineer, FPGA Engineer, and other tech roles

**Programs:** First-year Trading & Technology Program, INSIGHT, IN FOCUS, Graduate Research Fellowship.



Find out more at: <https://www.janestreet.com/join-jane-street/>



## Newton

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Do you want to make a meaningful impact?

At Newton we are a consultancy that helps organisations realise their strategic ambitions, translating them into real-world outcomes. Specialising in the defence, consumer and public sectors, we need exceptional graduates like you to create bold, fresh thinking.

The challenges our clients face are highly complex, but the seemingly impossible is where we thrive. You'll work hand-in-hand with our clients, going as deep as it takes to find answers. It's more than hitting numbers or ticking boxes but delivering meaningful, measurable impact.

As a graduate, you'll progress at pace, and there's no limit to unlocking your potential. At Newton, we're building a community of exceptional people, one built on trust and shared experiences, of challenge and adventure. Collaboration is key, from spending time away onsite to regular whole-company days to tackling projects together. We're currently looking for operations and digital graduate consultants. Roles are open to applicants from all degree disciplines and can be based anywhere in the UK as you'll need to travel to UK-wide project sites.

We bring together exceptional people who drive development, motivating individuals to become better versions of themselves. **It's never easy, but it's always rewarding.**

Our consultants will be at the careers fair and would love to talk to you about graduate job and internship opportunities at Newton. Come say hi for your chance to help us unlock complexity and win Deliveroo vouchers to take home.

# Newton<sup>+</sup>

Find out more at:

<https://www.newtoneurope.com/careers/graduates>

## Oliver Wyman

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Oliver Wyman is a leading international management consulting firm that combines deep industry knowledge and expertise to create breakthroughs for clients on their toughest issues. With offices in 60 cities in 29 countries, Oliver Wyman combines deep industry knowledge with specialized expertise in strategy, operations, risk management and organization transformation. The firm has more than 5,000 professionals around the world who work with clients to optimize their business, improve their operations and risk profile, and accelerate their organizational performance to seize the most attractive opportunities.



Find out more at: <https://www.oliverwyman.com/careers.html>

# Optiver

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Optiver is a tech-driven trading firm and leading global market maker. As one of the oldest market making institutions, we are a trusted partner of 50+ exchanges across the globe. Our mission is to constantly improve the market by injecting liquidity, providing accurate pricing, increasing transparency and acting as a stabilising force no matter the market conditions. With a focus on continuous improvement, we participate in the safeguarding of healthy and efficient markets for everyone who participates.

Our Amsterdam office is where it all began. Over 35 years ago, Optiver's business started with a single trader on the floor of Amsterdam's European Stock Exchange. Since our 1986 founding, Optiver's Amsterdam office has grown into one of the most dynamic and exciting trading floors in Europe. Our culture reflects the Dutch capital city's progressive, innovative and inclusive nature. With its unique spirit, Amsterdam is the ideal hub for our teams to trade a wide range of products from listed derivatives to cash equities, ETFs, bonds and foreign exchange.



Find out more at: <https://optiver.com/working-at-optiver/career-opportunities/>

# OxFORD Asset Management

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Investing, powered by scientific excellence.

We are scientists, software engineers and mathematicians based in Oxford and drawn from around the world. Our group of exceptional thinkers, problem solvers and creators take a scientific approach, combined with outstanding technology, to invest in global markets.

## Exceptional, creative people

Our people come from many different walks of life, countries, and cultures. We are free thinkers who relish working together to find enduring solutions to complex problems.

We are rational, curious, and restless for improvements. We ask questions, challenge conventions and test limits. Our people are encouraged to use their initiative and follow their instincts.

Our group has a wealth of experience, accumulated over decades of investing through market cycles and global events. Our teams are small and focused; everybody has an opportunity to make a real impact.

Together, we enjoy tackling issues creatively and with open minds.

## Centre of excellence

Our offices are located in the heart of the city, surrounded by the colleges and faculties of the University. We work to the highest standards, advancing the frontiers of our field.



Find out more at: <https://www.oxam.com/join-us/>

## Pythia Sports

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Pythia develops proprietary predictive models of sporting events for the purpose of helping our clients achieve staggering returns on wagering. Our coverage of sports and locations has grown considerably since our inception, and currently we predict results globally for a range of competitions. We make use of everything from classical statistics, to modern machine learning techniques, and work mostly in Python and MATLAB, but also R, VB, and C++, on a mix of on-premises and cloud-based machines.

We are a hive of different profiles. But we are united by a spirit of boldness. At Pythia, whatever your skillset or your background, you will find like-minded individuals with whom you can think big and challenge the status quo.

Pythia helps businesses deliver innovations that drive technological progress for the benefit of sports & gaming. Whatever your career stage, you can expect opportunities to grow your expertise and convert your talent into meaningful impact.



Find out more at: <https://www.pythiasports.com/join-us/>

## QRT

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Qube Research & Technologies (QRT) is a global quantitative and systematic investment manager, operating in all liquid asset classes across the world. We are a technology and data driven group implementing a scientific approach to investing. Combining data, research, technology, and trading expertise has shaped our collaborative mindset, which enables us to solve the most complex challenges. QRT's culture of innovation continuously drives our ambition to deliver high quality returns for our investors.



Find out more at: <https://www.qube-rt.com/>

# Rokos Capital Management

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## Who are we?

RCM is a global alternative manager combining relative value and directional trading across global macro asset-classes to generate uncorrelated returns. Our core portfolio structure of intersecting product verticals is designed to deliver for investors in all market conditions. We have over 250 employees between our London, New York, Hong Kong and Singapore offices.

## Why work for us?

Our people are key to our success, and we believe people work best in a positive learning environment. RCM's culture is underpinned by four core values: Trusted Talent, Challenge ND SUPPORT, collective excellence and sustainable success. Our values capture the principles that direct our behaviour. In practice this means that every day is high energy and purposeful. We're focused on delivering success at pace and we strive for excellence. We will set high standards for you and give you access to the people, resources and experiences to help you attain them. You will be given individual responsibility within a team structure. Collaboration is at the heart of what we do. It will be demanding and fulfilling. Within a short space of time, you will develop and grow.

## What is the opportunity?

You will have impact from day one. Impact, pace and teamwork are what defines us, and we empower our developers to make important decisions and push our technical stack forward.



Find out more at: <https://www.rokoscapi.com/careers>

## Smith Institute

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Smith Institute is an advanced mathematics, data science and AI consultancy. We help clients unlock the potential of data, mathematics and AI to elevate decisions and accelerate innovation.

Our clients include some of the biggest names in energy, transport, defence, security and consumer goods who need expert support to solve their most complex challenges.

We are dedicated to applying our skills, expertise and experience to create positive and visible impact for society, the economy and the environment.



Find out more at: <https://www.smithinst.co.uk/careers/>



# Susquehanna International Group Limited (SIG)

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Susquehanna is a global quantitative trading firm founded with an entrepreneurial mindset and a rigorous analytical approach to decision making.

As one of the largest proprietary trading firms in the world, we trade our own capital at our own risk. We are experts in trading essentially all listed financial products and asset classes, with a focus on derivatives, and handle millions of transactions on exchanges around the world every day. While our presence in the market is broad, our trading desks are highly specialized, allowing for a deep understanding of the unique drivers of each product.

Our expertise in probabilistic thinking and game theory combined with our focus on signal detection and low-latency performance have made Susquehanna one of the leading global market makers. By providing liquidity and ensuring competitive prices for buyers and sellers, Susquehanna plays a critical role in the financial markets.



Find out more at: <https://sig.com/>

# Teach First

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**Who are Teach First?** We're a leading education charity. We believe education is the most powerful tool to help a child fulfil their potential. And we've already improved the life chances of over two million pupils.

**What do we offer?** Our Training Programme is much more than just the UK's largest teacher training programme. You will:

- Earn a salary, from day one teaching in September. See [here](#) for more information.
- Receive a fully-funded PGCE, an internationally recognised teaching qualification.
- Gain Qualified Teacher Status at the end of year one, with a pay rise on top.
- Learn to lead, with opportunities for progression to really propel you up the career ladder.
- Make a difference, teaching in the schools that need you the most.
- Receive support from a range of experts and become part of an unrivalled network for life.

**How it begins:** Your journey begins with initial training at the Institute. This combines online learning with in-person days. We also offer a part-time option for the Institute if needed. You'll then begin teaching in a school at the start of the next academic year. For a detailed overview of what to expect during the two years, see [here](#).

**Beyond the two years:** You'll become a Teach First ambassador, joining our 17,750+ network and benefitting from career-long support, wherever you go next. Over 100 of our ambassadors are already head-teachers, and others have founded social enterprises and even joined government.

Whatever you choose, whether inside the classroom or beyond, you'll benefit from the skills you've gained and network you've built, and continue to make an impact on eradicating educational disadvantage.



Find out more at: <https://www.teachfirst.org.uk/training-programme>

## The Phoenix Partnership (TPP)

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TPP is a world-leader in Digital Health. From apps enabling patients to manage their own care to comprehensive hospital solutions, TPP delivers technology that connects everyone involved in healthcare delivery. For over twenty years, we have been applying the most advanced technology to provide a safe and secure environment to deliver care. Our aim is to improve access to healthcare data, making sure it is available whenever and wherever it is needed. We want to help people make the best use of that data, to empower clinicians and citizens, and to create the healthcare systems of the future.



Find out more at: <https://tpp-careers.com/>

## Wincent

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Wincent has been a key player in cryptocurrency market making since 2017, providing liquidity and trading solutions across a range of centralized and decentralized exchanges. We handle \$3B+ in daily trading volume, processing over 300K transactions per day and contributing ~1% to global crypto volume. Partners include major exchanges such as Kraken, Binance, and Bybit. Our operations are built on advanced infrastructure, exclusive partnerships, and highly sophisticated algorithms, allowing us to maintain the tightest spreads and minimal market impact.

Wincent's team is comprised of professionals from leading tech firms and top-tier academic institutions worldwide, including engineers, quantitative researchers, and traders. This includes international medalists from informatics, math, and physics olympiads.

We are looking for individuals with strong backgrounds in mathematics, physics, engineering, and quantitative research. If you are interested in contributing to the development of complex trading algorithms and working on fast and meaningful challenges, we encourage you to explore our available roles. No interest or previous experience in crypto needed!



Find out more at: <https://www.wincent.com/careers>

# Xantium

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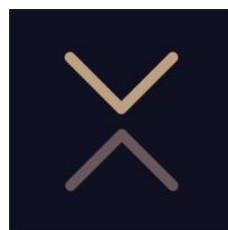
Xantium is the global quantitative investment team that will give you the freedom and tools to excel as you start your career.

We are researchers and developers who combine intelligence and curiosity with powerful data and technology. Together we build models and design systems to solve complex trading problems.

We encourage people to be themselves. If you have a different thought or see a better way, we want to hear it. It's never about who's the smartest. A diversity of views makes our ideas stronger.

Fast personal growth happens in a supportive environment. We give you the space to explore and experiment, providing help from our experienced team and founders when needed.

What could we achieve together? Let's find out.



Find out more at: <http://xantium.com/careers/oxfordmaths>