



JOBS FOR MATHEMATICIANS

Virtual **FAIR**

WEDNESDAY 28 OCTOBER 2020
EXHIBITORS FROM 12:00-18:00

THE FAIR FOR MATHEMATICIANS

Meet a diverse range of employers who
are recruiting for roles using maths.

www.careers.ox.ac.uk/careers-fairs

WELCOME TO THE JOBS FOR MATHEMATICIANS FAIR

This event, organised by the Careers Service, offers you the opportunity to find out about a variety of different career options across the math sector.

We are delighted to welcome you to Jobs for Mathematicians - a boutique fair -which offers you the opportunity to:

- Find out about careers using maths;
- Meet employers who are recruiting for roles using maths;
- Compare different organisations and sectors;
- 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 e.g. 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.

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APR



APR's business is straightforward – we provide clients with high-quality actuarial solutions, with a desire to be the most trusted provider of interim actuarial services in the marketplace. These solutions take the form of:

Short-term project support across a full range of actuarial projects.

Consulting solutions, using our expertise to address a variety of client needs.

As an employee of APR you will:

Experience unrivalled variety in your work through exposure to actuarial, modelling and data projects across different clients.

Receive some of the best training that any actuarial employer offers with extensive exposure to Excel/VBA modelling, coding, data analysis and actuarial software, and full study support towards the actuarial exams.

Our staff appreciate the combination of a relaxed, friendly and informal culture, with a strong drive to deliver something innovative and valuable to clients. Successful candidates will be highly intelligent and exceptionally numerate; all of our recruits enjoy opportunities for early responsibility within our flat company structure.

Find out more at: <https://aprllp.com/working-for-apr/graduate-associate-scheme/apply-to-our-graduate-scheme/>

BP



At bp, our purpose is reimagining energy for people and our planet. We provide our customers with heat, light and mobility, and the energy we produce serves to power economic growth and helps to lift people out of poverty.

We have a real contribution to make to the world's ambition of a low carbon future, and it is our ambition to be a net zero company by 2050 or sooner, and to help the world get to net zero too.

From engineers, technology developers and geoscientists to traders, HR professionals and commercial analysts, everyone at bp plays their part in making this ambition a reality. Everyone on our early talent programmes is part of it too. After all, it's only by bringing diverse people together in one, world-class team that we can succeed.

Find out more at:

<https://www.bp.com/en/global/corporate/careers/students-and-graduates/locations/united-kingdom/graduate-programmes.html#search>

CISCO



We embrace digital, and help our customers implement change in their digital businesses. Some may think we're "old" (30 years strong!) and only about hardware, but we're also a software company. And a security company. A blockchain company. An AI/Machine Learning company. We even invented an intuitive network that adapts, predicts, learns and protects. No other company can do what we do – you can't put us in a box!

Day to day, we focus on the give and take.

We give our best, we give our egos a break and we give of ourselves (because giving back is built into our DNA.) We take accountability, we take bold steps, and we take difference to heart. Because without diversity of thought and a commitment to equality for all, there is no moving forward.

Find out more at: <https://jobs.cisco.com/>

CITADEL & CITADEL SECURITIES



Citadel is an 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. We help clients' capital fulfill its potential across a range of markets and investment strategies, including fixed income & macro, equities, quantitative, commodities and credit.

Citadel Securities is a leading market maker, delivering an array of fixed income and equity products to banks, broker-dealers, government agencies, corporations, insurers, and sovereign wealth funds. Through innovation and efficiency, we provide liquidity with the goal of driving price discovery and making markets more competitive, open, and transparent.

We're recruiting for internships and graduate programmes across Trading, Software Engineering and Quantitative Research - stop by to speak to us!

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

DA VINCI DERIVATIVES



Da Vinci Derivatives was founded in 2015 by a group of young trading professionals and has since been growing successfully. With our own capital and sound risk awareness we trade listed derivatives on markets globally. We identify opportunities and trade based on in-house developed strategies, and we provide liquidity and efficiency to the markets.

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. We aim at attracting the most qualified people in the industry, train them, provide them with all the required tools, continuously challenge them and allow them to grow both professionally and personally. Our business is highly innovative, IT driven and entrepreneurial by nature. Our goal is to become the best trading company in the world!

Come meet us at the virtual Jobs for Mathematicians Fair!

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

FIRST ACTUARIAL LLP

First Actuarial delivers pension consultancy services to employers and trustees, bringing expert advice and solutions tailored to every shape and size of pension scheme. We listen carefully to what our clients tell us, and seek to develop a deep understanding of our clients' businesses through long-term relationships based on trust.

We are a partnership with no external investors. All our partners work in the business, sharing their knowledge and expertise.

First Actuarial puts delivering pragmatic pension solutions at the heart of its business. We help our clients and pension scheme members get the best out of pensions. After 15 years of stellar growth we are looking to take on university graduates to join our growing talented Actuarial and Investment Consultancy teams to continue our journey.

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

FIVE RINGS LLC



Opportunities are everywhere. The objective at Five Rings Capital: Find them first and profit from them quickly. We work in teams - quants, developers, traders - continuously designing and optimizing. Strategies are executed rapidly, from insight to implementation often within days or weeks.

Five Rings is a team-first meritocracy built on constant innovation, where motivated, highly analytical individuals can thrive in almost any direction.

Find out more at: <http://jobs.jobvite.com/fiverings/>

G - RESEARCH



We Are A Leading Quantitative Research And Technology 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.

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

GSA CAPITAL



GSA is a collaboration of approximately 180 people. For over a decade we have worked together creating and applying innovative technologies to solve problems in the investment management industry. 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. We live by the scientific method in building quantitative models that analyse and predict real world behaviour. We implement algorithms based on these models to systematically invest in markets. 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. People who work here enjoy a culture of trust, innovation and scientific rigour. It's a friendly, open place where people are motivated because they enjoy what they're doing.

Graduates and Interns Sought: Students of all academic levels from the following and any closely related disciplines including Computer Science, Engineering, Mathematics, Statistics, Physics, Economics and Empirical Finance.

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

HSBC



You want a career with opportunities? HSBC has a world of them.

They're looking for new students and graduates who are collaborative and curious thinkers, with the courage to challenge the status quo and the motivation to make a positive impact for customers worldwide.

HSBC is one of the world's largest, most diverse international banking and financial service organisations. With 3,800 offices in 64 countries and territories, HSBC serves 40 million customers in both established and emerging markets.

HSBC is focussed on building a sustainable future and serving the needs of a changing world. They put diversity at the heart of their business, and want a connected and international workforce of unique thinkers who are open to a range of perspectives that reflect the communities and markets in which they serve.

HSBC provides an open, supportive, and inclusive working environment, providing tailored training and support to help employees thrive in their chosen career path. No matter what your interests and skills are, a career at HSBC will give you the opportunities, experiences, networks and training you need – so there's no limit to how far you'll go.

Find out more at: www.hsbc.com/careers/students-and-graduates

INSTITUTE OF MATHEMATICS AND ITS APPLICATIONS

The Institute of Mathematics and its Applications is the professional and learned society for mathematicians, supporting and promoting the advancement of mathematical knowledge for the public good. Membership recognises your qualifications and experience, connects you to a widespread community of mathematicians, keeps you up to date with the world of mathematics and offers professional development through registration as a Chartered Mathematician.

The IMA has offered Teacher Training Scholarships for the last eight years to candidates with the potential to be inspirational maths teachers.

We can offer general mathematical careers' advice in addition to the information about the Mathematics Teacher Training Scholarships.

Find out more at: <https://ima.org.uk/>

JANE STREET



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?

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

LEONARDO (AIRBORNE & SPACE SYSTEMS DIVISION)

Leonardo is a global high-tech player in Aerospace, Defence and Security. With headquarters in Italy and over 49,000 employees, Leonardo has a major industrial presence in four main markets (Italy, UK, US and Poland), and an important network of strategic partnerships in the main high potential markets worldwide. With a UK focus on our Defence Electronics and Helicopter capabilities, Leonardo employs around 7,000 people at six major sites throughout the UK, 67% of who hold highly skilled positions. Leonardo's growth in the UK has resulted from the skills, energy and dedication of our people. We are therefore committed to maintaining a skilled and diverse workforce and offering personal fulfilment through the highest quality education and development.

Find out more at: <https://uk.leonardocompany.com/en/people-careers>

LIQUIDNET



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

Find out more at: <https://www.liquidnet.com/open-positions>

MARSHALL WACE



We are looking for Quantitative Researchers to join our Systematic Investment teams in our London office. To be successful in this role, you are likely to have a research scientist mindset. You will be part of the team from day one, working in a research position designed for high-calibre, highly numerate individuals who are able to contribute to the development of our quantitative strategies. We will help you reach your full potential - high performing individuals have become involved in creating and optimising systematic trading models. You will also be tasked with delivering on the research agenda and back testing/researching forecasts of asset returns on horizons of hours to years.

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

METASWITCH NETWORKS



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

MORGAN STANLEY



Morgan Stanley believes capital has the power to create positive change in the world. The biggest and most impactful changes come from people like you. If you come to Morgan Stanley, what will you create?

If you want to hear how you can put your talent and ambition to work and be part of a team that creates positive change, join us at our Mathematicians Fair aimed at students from all degree disciplines in all years interested in applying for our programmes.

You will not only have the opportunity to learn more about us and the work we do but also find out what skills are required to succeed at Morgan Stanley. You will hear first-hand what it is like to work at Morgan Stanley and why we believe our culture is a real differentiator.

Find out more at: <https://www.morganstanley.com/people-opportunities/students-graduates>

MUNICH RE

Munich Re UK Life & Health Branch is a leading player in the UK, Irish and offshore life reinsurance markets. As a major global reinsurer working across all business lines (including Life, Disability, Health, Longevity and Financial/Structured Reinsurance), we offer the ability to join our technically expert teams working across a diverse product offering.

We understand that Life insurers work in a dynamic market where medical progress, demographic trends and changing lifestyles are constantly giving rise to new risk landscapes. We work with our clients to ensure we stay ahead of these trends.

We are looking for bright, strong and ambitious graduates or postgraduates to join our expert actuarial teams of technical specialists in all areas of the UK Life Insurance industry. We will provide full study support and encouragement to help you throughout your Actuarial exams and to qualify. Further on and off the job training will develop your technical abilities and soft skills to develop you into a leading Life Insurance professional.

Find out more at: <https://www.munichre.com/uk-life/en.html>

NEWTON EUROPE



We are Newton.

We're a team of the brightest and most curious minds with a fundamental belief that every organisation can be better.

We crack some of the toughest business and public sector challenges of the day. Not with reports or copy and paste thinking. But by pinpointing and implementing the changes that will make the biggest difference – and then guaranteeing our fees against delivering measurable results.

We never start out assuming we know the answer, but we're always certain we'll find it and see it through to the finish. By uncovering the data so the most important decisions are made with facts, not opinions. By bringing together people who live and breathe delivering results. And by embedding in client organisations this same passion, self-belief and know-how to thrive on any challenge in the future.

We're looking for Operations and Digital Consultants to work alongside a variety of clients designing and implementing programmes to deliver real, sustainable change. Day to day, you'll be working with our clients to identify opportunities for improvement and then plan and implement the changes needed to solve the problem.

Find out more at:

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

OPTIVER



Start your career with Optiver, who over thirty years ago, started business as a single trader on the floor of Amsterdam's European Options Exchange. Today, we are a leading global electronic market maker, focused on pricing, execution and risk management. We provide liquidity to financial markets using our own capital at our own risk, trading thousands of financial instruments such as listed derivatives, cash equities, ETFs, bonds and foreign currencies on more than 50 exchanges around the world. We strive to contribute towards healthy markets and putting us at the forefront of technology and trading.

With over one thousand Optiverians located in five offices globally, our mission to improve the market unites us. Thriving in a high performance environment, we pioneer our own trading strategies and systems using clean code and sophisticated technology. We achieve this by attracting, developing and empowering top talent, in order to sustain our future.

Find out more at: www.optiver.com/eu/en/job-opportunities

OXFORD COMPUTER CONSULTANTS



We are a lively, growing software company based in the centre of Oxford. We have expanded from just 2 people in 1989 to over 100 today. We create original, robust and flexible solutions that add value to businesses and make a positive contribution to society.

We build a successful range of social care products for local government and deliver custom software to clients including Sport England, National Grid and the NHS.

We believe it's our employees that really make us stand out from the crowd, so we do all we can to make OCC a rewarding, fun and challenging place to work.

Find out more at: www.oxfordcc.co.uk/careers/

SOFTWARE



Softwire is an independent software company with offices in London, Manchester and Cambridge. We deliver innovative, high quality software solutions in a range of markets with clients including the BBC and Google DeepMind.

We are looking for graduate software developers and interns who want a challenging role in our highly successful and growing company. Our staff are among the smartest and happiest in the industry and they grow with us, learning diverse technologies and pursuing the type of work they find most interesting.

We offer a superb all-round package, including London starting salary of £40,000, with half of our profits distributed to staff as bonus. The working environment is friendly and relaxed and there are opportunities to engage in pro bono and charitable work too. We have featured in The Sunday Times Best Small Companies to Work For list in each of the past ten years.

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

SUSQUEHANNA INTERNATIONAL GROUP LIMITED

SIG is a global quantitative trading firm founded with a growth mindset and a rigorous, analytical approach to decision making.

We bring together the brightest minds, the best technology, and an expansive library of data. Only by tapping into our diverse perspectives and our commitment to education can we truly reach our potential.

This ability to think together (but not always alike) has propelled our success.

WE'VE GOT WINNING DOWN TO A SCIENCE.

WHAT WE DO:

Committing our own capital, we develop trading strategies to buy and sell financial instruments on exchanges around the world. By building virtually all of our own trading technology from scratch, we are able to stream billions of quotes per day.

Our traders, quants, and technologists work side-by-side to implement our proprietary trading strategies, making us leaders in the financial markets.

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

TEACH FIRST



Our challenge is to unlock the potential in all our children, not just some. We seek, develop and support teachers and leaders who are determined to make a difference where it's needed the most. If we fail at this, we fail the next generation. If we succeed? We build a better future together.

The current global crisis has proven what many have known all along: teaching is a vital profession for the future of our country. Embarking on one of the UK's top graduate schemes, you'll be developing transferable leadership skills, learning a profession, becoming part of a network of over 10,000 leaders and most importantly, making an impact on the lives of children who need it most.

Fully trained. Fully supported. And changing lives. If you want to become part of the most important generation of teachers and leaders apply now for our 2021 Training Programme. Subjects and locations will close as they fill, so apply early for the best availability. It's far from your average day job. Expect surprises, challenges and an unmatched sense of fulfilment.

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

TESSELLA LTD



Tessella is one of the world's leading data science and AI consultancies.

We are scientists and engineers who enjoy solving the real-world technical challenges faced by companies at the forefront of science and technology. Using a combination of deep domain knowledge and technical expertise, including data science, analytics and software engineering, we work with our clients to unlock the value held within their data, enabling better-informed business decisions. We are looking for talented science, mathematics and engineering graduates and postgraduates to join us and help create solutions that make a difference in the world. You will learn new domains and technologies and apply innovative thinking and transferable skills to solve new challenges.

Find out more at: <https://jobs.tessella.com/>

TPP UK



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.

TPP has been consistently recognised as an outstanding graduate employer. In both 2017 and 2018 we were awarded the “Top Company for Graduates to Work For” and for the last three years we have won the “Graduate Salary” category by the JobCrowd. We have also been named in the Times Top 100 Graduate Employers list for both 2019 & 2020

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