Careers Speed Networking for Mathematicians

Tuesday 23 October 2018
Queen’s Tower Rooms
5.30-8.30pm

Careers Service
www.imperial.ac.uk/careers
INTRODUCTION

In this brochure you will find details of the companies and alumni who have very kindly donated their time to come to our Maths Speed Networking event 23rd Oct 2018. The full entry for each company will tell you the details of who is coming and a bit about their mathematical background and current role. Once you have booked your place at the event, we will ask for your preferences of who you would most like to meet. We will assign you to your networking group based on your preferences and aim to get you meeting as many of your selections as possible.

It’s a good idea to think about what sort of questions you’d like ask before you come along to the event. This is a golden opportunity to find out what it is really like, as a mathematician, to work in these jobs, so come prepared. Things you might want to ask about include: what is a typical day, what are the best and worst things about the job, what advice would they give to someone starting out, how do they use their maths knowledge and skills in their day to day work, how could you become competitive for jobs like this, what trends and changes do they see happening and what news sources are good to keep up to date with what is happening. No doubt you’ll be able to think of lots more.

At the end of your conversations, don’t forget to thank the attendees for their time!

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Accenture

Sector: Consulting

Attendees:

1. Mikhail Ryzhik – Analytics Analyst (BSc (Hons) Mathematics degree from University of Manchester (graduated in 2016) and he also has MSc Risk Management & Financial Engineering from Imperial College)

About the company:

Who we are and what we do: We’re more than 411,000 people working in over 200 cities across 56 countries around the globe. A world-leading organisation, Accenture provide consultancy and technology expertise to some of the biggest names in just about every industry you can imagine. Clients come to us to make more of their business opportunities, adapt successfully to change, put ideas into action and gain – or sustain – a competitive edge. With our knowledge of the markets, understanding of the power of technology and ability to shape and implement transformational solutions, we do just that. We work with 4,000 companies and 94 of the Fortune Global 100.

AHeadForFigures

Sectors: Business Services, data science, freelancing

Attendee: Elizabeth Shaw, Data Visualisation Consultant (Imperial Mathematics graduate 2008)

Biography:

After an initial stint in investment banking (Deutsche Bank), my maths homing instincts kicked in, leading to my data career. I now use interactive visualisation software to unlock data, helping clients to distill their business drivers, and inform strategy. I work freelance across many sectors & business types, most recently Google - everyone needs to understand their data clearly and with good design!

Amadeus

Sector: Travel / technology / IT company

Attendee: Yin Yee Kan, former graduate software engineer at Amadeus (Current Imperial PhD student in AI)

About the company:

Amadeus is changing how the world travels. Our systems are transforming billions of passenger journeys each year. We have operations in 195 markets, with a global community of over 16,000 people from more than 140 different nationalities.

What does Amadeus do? Well simply put, we build the technology that powers the global travel industry. This includes flight search algorithms that determine the best route to a destination, systems that board over 4 million passengers every day, resource management tools for the world’s busiest airports and software that handles a whopping 75,000+ transactions per second.
Whether you’re hailing a cab, booking a hotel or checking in at the airport, Amadeus is behind the technology.

What we do is mission critical.

Our purpose is to shape the future of travel. We believe that better technology makes better journeys and we make this happen by joining the dots in the entire travel ecosystem.

We have spent over 30 years honing our craft and are regarded amongst the world’s top 15 software companies. Not that we’re ones to boast but we’ve been included in the Dow Jones Sustainability Indices (DJSI) World and DJSI Europe - for the seventh year running!

After graduating with a BSc. (Hons.) in actuarial science, I spent eight enjoyable years working at an international bank. During that time, I explored diverse roles ranging from product development to risk analytics to corporate strategy. I spent my sabbatical pursuing an MSc. in computer science and decided to switch careers after graduating. I joined Amadeus as a graduate software engineer working on the Departure Control Systems product. In a very happy turn of events, I have just started a PhD in artificial intelligence at Imperial under the supervision of Professor William Knottenbelt sponsored by Amadeus.

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Barclays

Sector: Finance - Asset Management

Attendee: William Morris, Senior Quantitative Analyst (Imperial Mathematics graduate 2009)

Biography:

Interned at Barclays as financial crisis unfolded (!), and accepted place on grad programme because having a job - any job - seemed like a good idea. Started off in the Wealth Management side of things as it seemed less vulnerable to the crisis and more friendly hours, but soon grew tired of the relationship management / salesy side of things. Moved internally on rotation to Investment Advisory, and found a full time role there. Taught myself to code, make tools, did the CFA exams. But wanted more maths, so applied for a position on the Quant Finance team, because of the Greek letters in their published docs on asset allocation methodology. Now largely responsible for the firm’s Strategic Asset Allocation, which involves a bit of theorising, a bit of coding in MATLAB, and a fair amount of bureaucracy!

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BBC

Sector: Media / Data Science

Attendee: Mamshad Laskar, Senior Data Analyst (Imperial Mathematics graduate 2012)

Biography:

I work in Data Insights at the BBC, having graduated in 2012 with a BSc in Maths from Imperial. In my role I help instil and support data-driven decision-making at the BBC. This involves using analytics, data visualisation and A/B testing tools to understand how audiences are using BBC websites and how we can better meet their needs.

Audiences are at the heart of what the BBC does, to fulfil our public service goals and inform, educate and entertain. Myself and the team cover a huge breadth of work â€“ from making the BBC much more personalised and relevant through e.g. optimising recommendations on BBC iPlayer, to leveraging our expertise with big data to shape new website features used and loved by millions of users around the world.
BNP Paribas

Sector: Banking and finance

Attendees:

1. Graham Barrett, Head of Credit and Rates Flow Technology (PhD in Non-Linear Optics, BSc Physics with Astrophysics Kings College London)
2. Ellie Woodfield, HR

About the company:

WHO WE ARE

BNP Paribas Corporate & Institutional Banking (CIB) is one of the world’s leading investment banks. Part of BNP Paribas Group, a financial institution with strong foundations, we work with corporate and institutional clients to intelligently meet their capital needs.

With more than 30,000 people in 57 different countries. Together, we collaborate to deliver real results for our clients across capital markets, securities services, financing, treasury and financial advisory. Our activities are many and varied – and so too are the opportunities.

WHAT WE’RE LIKE

We pride ourselves on having one of the most progressive environments in financial services. Our culture is friendly, vibrant and refreshingly down-to-earth. From the moment you join us, you’ll benefit from strong support networks and a meritocratic management style that recognises your individual contribution.

We believe treating people well goes hand in hand with great performance. It is why we have one of the most loyal workforces in the industry (as reflected by our high graduate retention rate). In an era where many of our peers are shrinking, we continue to go from strength to strength.

So far this year, we have won several accolades including World’s Best Bank for Corporates and Best Digital Bank in Western Europe (Euromoney 2017). Along with BNP Paribas Group, we were also recognised by Euromoney as the World’s Best Bank in 2016.

However, we are not stopping there. AI, big data, machine learning and the digitalisation of banking are changing our industry. With our digital transformation in action, we are continually innovating and pushing ourselves to stay ahead.

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Cisco

Sector: IT/telecommunications

Attendees:

1. Hazem El-Turk, Cybersecurity Consultant (MSc Imperial, Electrical and Electronic Engineering, 2014)

About the company:

The Internet of Everything is a phenomenon driving new opportunities for Cisco and it’s transforming our customers’ businesses worldwide. We are pioneers and have been since the early days of connectivity. Today, we
are building teams that are expanding our technology solutions in the mobile, cloud, security, IT, and big data spaces, including software and consulting services. As Cisco delivers the network that powers the Internet, we are connecting the unconnected. Imagine creating unprecedented disruption. Collaborate with like-minded innovators in a fun and flexible culture that has earned Cisco global recognition as a Great Place To Work. With roughly 10 billion connected things in the world now and over 50 billion estimated in the future, your career has exponential possibilities at Cisco.

Graduate and Internship Opportunities: IT Engineer Graduate Role | IT Analyst Graduate Role | IT Analyst Internship | IT Engineer Internship | Associate Sales Representative Graduate Role | Associate System Engineer Graduate Role | Field Sales Internship | Technical Sales Engineer Internship | Associate Network Consulting Engineer Graduate Role | Software Engineer Internship | Software Engineer Graduate Role

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FTI Consulting

Sector: Consulting

Attendees:

1. Kean Seegar, Consultant (MSci Chemical Engineering, Imperial College, 2017)
2. Nicola Barton, Consultant (Chemical Engineering, University of Bath)

About the company:

FTI Consulting is one of the world’s pre-eminent consulting firms.

We have been a trusted advisor during some of the most memorable events in recent history, including landmark celebrity legal cases, international crises and disputed presidential elections. Our world-leading experts provide expert advice on wide-ranging and far-reaching business and economic issues.

In our Economic & Financial Consulting practice we provide expert advice on issues in economics, finance, business valuation and accountancy, primarily in the context of legal disputes and economic regulation.

Issues frequently addressed include the measurement and forecasting of economic performance; the financial analysis and valuation of direct and indirect interests in businesses; the value of intellectual property rights and complex financial instruments, and the effect of incentives on behaviour.

Our graduates play a key role in our project teams by performing industry research and starting to develop the knowledge and experience to perform detailed economic analysis and financial modelling. They benefit significantly from working closely with managers and other team members as well as from direct exposure to our practice leaders. They also benefit from our in-house training and skills gained from studying for their professional qualifications.

Our other service lines (not attending today) include:

Corporate Finance;
Strategic Communications;
Forensic Accounting;
Technology.
**Government Actuary’s Department**

**Sectors:** Government / Actuarial

**Attendee:** Nazmus Haz, Actuary (Imperial Mathematics Graduate 2014)

**Biography:**
- Started working at the Government Actuary's Department (GAD) in September 2014.
- At GAD, I've worked as a junior trainee actuary, a senior trainee actuary, and now as an actuary.
- Passed the 15 exams required to qualify as a Fellow of the Institute of Actuaries in 2017.
- I currently work in the insurance and investment team, specialising as an investment actuary.
- Most of my time at the moment is taken up as being the lead technical actuary on student loans securitisation projects.
- Other work also includes providing investment advice and insurance reserving advice to different government departments and pension schemes.
- Previous experience at GAD includes advising the NHS pension schemes, and working as a SAS programmer.

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**Government Operational Research Service (GORS)**

**Sector:** Civil Service / Government

**Attendees:**
2. Christopher Worsfold – Home Office (Theoretical physics graduate from Imperial)

**About the organisation:**

The Government Operational Research Service (GORS) currently supports policy-making, strategy and operations in many different departments and agencies and employs around 500 analysts, ranging from sandwich students to members of the Senior Civil Service. Through the use of scientific and mathematical techniques, GORS analysts bring intellectual rigour to the decision-making process. At GORS you can expect to work on projects that challenge your creativity as well as your intellect.

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**Hiscox**

**Sector:** General Insurance – Actuarial

**Attendees:**
1. Aarun Upaul, Senior Actuarial Analyst (BSc Actuarial Science from LSE. Graduated in 2015)
2. Caitlin Hulse, Capital Analyst (BSc in Mathematics and Economics from the University of Nottingham, 2013)

**About the Company:**
We insure the unique and the interesting. And we search for the same when it comes to talented people.

Hiscox is full of smart, reliable human beings who look out for customers and each other. We believe in doing the right thing, making good and rebuilding when things go wrong. Everyone is encouraged to think creatively, challenge the status quo and look for solutions.

We like to do things differently and constantly seek to evolve. We might have been around for a long time (our roots go back to 1901), but we are young in many ways, ambitious and going places.

Some people might say insurance is dull, but life at Hiscox is anything but.

You will be part of a training programme that develops you through a series of rotations across our various actuarial functions including the possibility of an overseas placement. During this time we will sponsor you towards your actuarial qualification and expect you to gain it quickly.

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HSBC

Sector: Banking and finance

Attendees:

1. Joshua Freeland, Director, Credit Trading
2. Alexandre Guignot, Associate Director, Credit Trading

About the company:

Around the world, growth is bringing new prosperity; businesses are pioneering new trade routes; new centres of wealth and influence are emerging and HSBC has an important role to play. Throughout its history, HSBC employees have been dedicated to connecting customers to this growth, enabling business to thrive and economies to prosper.

HSBC is looking for new students and graduates who are motivated by this purpose and are dedicated to building a sustainable business for the long-term. They are looking for collaborative and curious thinkers, with the courage to challenge the status quo and the motivation to make a positive impact for customers and communities.

The HSBC global internship and graduate programmes are designed to harness key qualities within the most talented students and graduates, regardless of what subject they have studied at University.

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LV=

Sector: Insurance, pensions and investment

Attendees:

1. Jonathan Prout, Head of Technical Pricing (MSc Pure Mathematics, Imperial 2010)
2. Aashil Pindolia, Principal Pricing Analyst (BSc MORSE (Mathematics, Operational Research, Statistics, Economics), University of Warwick 2013)

About the company:

As the country’s largest friendly society with over five million customers, we’ve come a long way over the years. We’ve expanded hugely, greatly improved financial performance and won lots of awards for delighting our
customers. But we don’t rest on our success or take our growth for granted. With a focus on continuous optimisation, we analyse and scrutinise every detail of our business; how we work, how we report and how we price our products and services. Why? So we can improve and deliver the best possible results for our customers.

Pricing is crucial here. If our price is too low, we may sell a lot of policies but we could make losses. If it’s too high, we may not be competitive enough. Joining the Pricing team, you’ll be at the epicentre of our continued success, as you play a vital role in making customers happy and making LV= the best business it can be.

Our Pricing function is unique in that talented professionals in this area need to be precise and technical but also have the ability to work very closely with a variety of other teams to ensure that our prices are set competitively, reinsurances arrangements are as effective as possible and that we’re driving value for our members.

The ever-evolving external landscape and interesting business changes at LV= mean that work never gets boring or repetitive in this dynamic function. Teams enjoy exposure to a huge range of projects - from pricing refinement and distribution deals to playing a crucial role in large transformational changes.

More than just being highly technical and numerate, people in Pricing work collaboratively to distill impactful ideas from data and solve problems innovatively. The size, scale and ambition of LV= means that you’ll enjoy a large, varied range of work and opportunities and still be visible enough to make a real difference to the business.

Thorough training takes shapes in a number of ways. As well as courses, development programmes and support for professional qualifications, individuals enjoy plenty of on-the-job learning and exposure to senior management and Executive teams. The rewards here are achievable and the culture is friendly and supportive. This enables you to accelerate your career progression and achieve your professional objectives. Just like we care about our customers, we care about your career. Working in Pricing, we’ll make sure you have all the support, challenges and encouragement that you need to build a hugely rewarding career.

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Morgan Stanley

Sector: Financial services

Attendees:

1. Ioana Radu, Technology Analyst, Quality Assurance & Production Management (MEng in Computing, Imperial College London, 2017)
2. Roxana Ursu, Technology Associate, Institutional Securities Technology (BEng Joint Mathematics and Computer Science, Imperial College London, 2016)

About the company:

Morgan Stanley is more than a leading financial services firm. With offices spanning 42 countries and talented, passionate people bringing excellence and integrity to everything we do, the firm is truly global. Throughout the firm’s history, diverse and talented individuals have worked together to develop our new ideas and groundbreaking financial products.

Our successes

Morgan Stanley has maintained its leadership position in the industry for many years. The firm’s investment banking franchise regularly features at the top of the league tables for Mergers & Acquisitions and IPOs. Our research, strategy, and economics teams are consistently ranked highly in investor surveys. Our Sales & Trading, Prime Brokerage, Wealth Management and Asset Management businesses have won multiple awards over the years and Morgan Stanley’s commitment to diversity and equality has also received accolades.
Core Values

Four things are at the heart of everything we do:

- Putting Clients First
- Doing the Right Thing
- Leading With Exceptional Ideas
- Giving Back

Our people

There is no typical person at Morgan Stanley. Our people come from a wide variety of backgrounds and interests but they are all high achievers who share integrity, intellectual curiosity and the desire to work in a collegial environment. Individuality is prized and people are encouraged to be themselves. What you are interested in and how you approach the world will determine your individual career path at Morgan Stanley.

Our expectations

Our success is built on a history of providing the very best advice and solutions tailored to our clients’ needs. It’s one of the things that sets us apart, and we want to work with and develop students and graduates who share that commitment to providing first-class service. Attitude is therefore just as important as aptitude, which is why we accept academically excellent applicants from all degree disciplines.

Envision your success with Morgan Stanley. What will you create?

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PA Consulting

Sector: Consulting

Attendees:

1. Peter Agorioge, Analyst (Physics and Mathematics, UCL)
2. Ruby Dickinson, Analyst (Mathematics and Economics, University of Bristol)

About the company:

We are the consulting, technology and innovation firm that uses constant curiosity and ever-evolving expertise to make a lasting impact on the world. We are PA Consulting Group. Specialising in technology and innovation, management and IT consulting, our employees operate globally across a wide range of sectors, delivering practical solutions that make the difference for our clients.

Getting exceptional results that have a lasting impact on businesses, communities and individuals is what we do. And finding fresh angles, exploring new avenues and following the unconventional path is how we do it. We are solving some of the world’s most complex problems. But where others settle for off-the-shelf solutions, we approach each challenge with fresh eyes, unconstrained thinking and a perfectly balanced team of experts handpicked for the task.

We believe that diversity makes us a stronger firm and seek to employ people with different ideas, styles and skill sets, each able to contribute in unique ways. This diversity engenders a richer, more creative environment – one in
which our people develop and clients are served better. We are committed to recruiting, promoting and rewarding our people solely on the basis of their ability to contribute to PA's objectives, without regard to their sex, race, disability, religion, national origin, ethnicity, sexual orientation, age or marital status.

Join us and make the difference with your career.

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**PhDs and Academic Careers**

Sectors: Academia/Research

Attendees:

1. **David Stenning, Research Associate**

   I received a BSc in Applied Mathematics from Columbia University, and an MSc and PhD in Statistics from the University of California, Irvine. Between undergraduate and graduate school I spent two years as a laboratory research technician in the Columbia Astrophysics Laboratory. It was during this time that I started doing some data analysis and decided that I wanted to study statistics in general and pursue astrostatistics in particular. After my PhD I spent a year at the Paris Institute of Astrophysics and a year at Duke University and the Statistical and Applied Mathematical Sciences Institute. Now I'm here at Imperial, where I continue to (mostly) work on projects related to astrostatistics with a number of collaborators in the UK and in the United States.

2. **Nicola Fitz-Simon, Teaching Fellow**

   I have an undergraduate degree in Mathematics and an MSc and PhD in Statistics from Trinity College Dublin. My decision to take the MSc was motivated by the fact that I wanted to actually use maths in my career. After my MSc I worked for a short time for a Dutch bank called ABN Amro, but I quickly realised it wasn’t for me so I returned to college to do a PhD on modelling longitudinal data (the bank continued to pay me as a consultant during my PhD). Since finishing my PhD I have had various research posts in Biostatistics and Medical Statistics, at Oxford, LSHTM and Imperial. My main research interests are methods for estimating causes of effects. One interesting study I have worked on was to try to understand the effect of drinking alcohol during pregnancy on children’s cognitive outcomes. Another was on the effect of drinking water contaminated with a byproduct of Teflon on cholesterol. I joined the Department of Mathematics four years ago as a teaching fellow to develop my interest in third-level mathematics education. I am soon to take up a lectureship in Medical Biostatistics back in Ireland, at NUI Galway.

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**PwC**

Sector: Accounting

Attendees:

1. **Rhianne McCarthy, Data & Analytics Associate (Birmingham, Maths & Computer science, 2018)**
2. **Brodie Wilson, Data Associate (Durham, Maths & computer science, 2018)**

About the company:
Opportunities are at the heart of a career with us. And we’re proud, based on the opportunity we offer, that students have voted us the number one Graduate Employer in The Times Top 100 Graduate Employers survey for the last 13 years.

There are many areas of our business you can choose to join; Actuarial; Assurance; Consulting; Deals; Legal; Tax; Technology.

While we choose the best people to join us, it might be surprising to learn they’re from a wide range of backgrounds and have studied all sorts of degree subjects. And there are many areas of our business you could start your career. We have work experience opportunities across all our business areas. Our programmes will help you learn where your skills, interests and career goals would best fit into our business. You could spend as little as one day with us on a career open day, or if you’re looking to invest more time, you could apply to our summer internship programme or perhaps one of our work placements.

Join PwC. We’ll help you reach your full potential. Take the opportunity of a lifetime. Discover more online at pwc.com/uk/careers or via social media at facebook.com/pwccareersuk or @pwc_uk_career

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Quantexa

Sector: Data analytics and AI technology

Attendees:

1. Andrea Greco, Consultant/Data scientist (Studied a PhD in Theory and Simulation of Materials)
2. Claire Smid, Associate/Data scientist (Studied a MSc in Statistics)

About the company:

Quantexa was incorporated in March 2016 and has quickly demonstrated extraordinary success including raising significant investment funding (Series B funding - $20million in July 2018), completing a number of highly effective client engagements and expanding to a team of more than 100. The team includes experts with many years of experience in developing data analytics and AI software products, building advanced algorithms, marketing, selling and implementing these technologies together with our partners.

Our software solutions apply advanced analytical techniques to huge volumes of data, producing single customer/business views and networks of relationships and activity, for data lake and real-time usage. This underpins a range of automated decision making and artificial intelligence (AI) solutions, producing world class accuracy and outcomes. The products can be deployed at customer site in full cycle agile deployments or in the cloud as a software as a service. To date, we have focused on combatting fraud and financial crime but we are rapidly expanding the use cases into business development, risk and beyond. Our customer base is typically blue-chip, tier one and global organisations, including: financial services, oil and gas, travel and transport, government and insurance.

Our head office is in London near Waterloo Station, and we have offices in North America, Europe and Australia, with plans to extend globally.
Quantum Black/McKinsey

Sectors: Data science, management consultancy

Attendee: Paul Beaumont, Data Science Consultant (Imperial MSc Mathematics graduate 2014 and PhD in Computing)

Biography:

After my MSci in Mathematics, I completed a PhD in Computing (also at Imperial), before joining McKinsey & Company's data science subsidiary, QuantumBlack. At QB, I work as a Data Science Consultant, developing bespoke data science solutions to help companies make better, data-driven decisions.

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Risk Management Solutions

Sectors: Risk, finance - insurance and pensions

Attendee: Theresa Lederer, Senior Disaster Risk Consultant (Imperial Mathematics graduate 2013)

Biography:

RMS helps organizations understand and manage their risk exposure. We build highly sophisticated natural catastrophe risk models as well as models of terrorist acts, pandemic outbreaks and human longevity. We work in small teams during projects and roles vary from using the catastrophe models (for which an intricate knowledge of their workings is required) to generating maps and report metrics. In addition to this I have helped develop online tools to allow users to analyze their risk in different ways, programming skills to develop these tools have been learned on the job. There is a mixture of client facing and development type roles, with the freedom to choose which suits best as you progress in the company.

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Teach First

Sector: Teaching and education

Attendees:

1. Althea al Zadjali, University Recruiter
2. Maksim Mijovic, Management Consultant for PwC working in data analytics for private sector clients. Before that, a maths teacher in Croydon on the 2013 TeachFirst cohort, and before that graduating with an MSci in Maths, here at Imperial.

About the organisation:

Teach First is a charity working to end educational inequality. Since 2002, we've found and developed thousands of talented people to teach and lead in schools facing the greatest challenges, helping to change the lives of more than a million disadvantaged children. We train and support exceptional people like you to become influential classroom leaders through our Leadership Development Programme. Quite simply, if you can inspire in the classroom, you can bring tenacity, efficiency and imagination to any environment. Our participants often progress quickly after completing our programme, becoming headteachers, high-ranking civil servants, tech innovators and senior consultants. What they all have in common is a belief that every child should have equal opportunities in education and in life, and the drive to help us achieve this goal.