

Aurora Graduate Modelling Programme Oxford





“ I can't believe how much I have learnt in such a short space of time. Aurora has helped me to transition from a scientific background to applying my technical and problem-solving skills to some of the most interesting real-world developments in the energy industry. The initial modeller training provided an excellent foundation for the ongoing content updates, training opportunities, and support to build on. ”

Joseph Lloyd

Graduate Programme

Aurora Graduate Modelling Programme

At Aurora Energy Research, we develop intelligent and influential research, publications and consulting services that are vital to the global energy transformation.

Through analysis and insights based on leading modelling of energy markets, we support strategy, policy and investment decisions for a spectrum of energy market participants. We've developed trusting relationships with hundreds of clients, including energy companies, investment funds, banks, network operators and governments.

Our success is built on a supportive team culture that helps talented people to develop their skills and expertise, excel in their work, and make a difference in the world.

From our offices in Oxford, Paris, Madrid, Berlin, Stockholm, Rome, Athens, Sydney, Austin TX, and Oakland CA, we cover the energy markets of a growing list of countries across Europe, Asia Pacific, and North America.

Opportunities at Aurora

Have an impact on the global transition to a cleaner, cheaper energy system

In countries around the world, the energy system is decarbonising, decentralising and digitalising. At Aurora, you will help companies and governments make better decisions to navigate this transition through insights derived from our in-house models developed by our modelling team. Your work towards our model development will contribute to tackling some of the biggest energy challenges, including climate change, access to electricity, and the cost and security of energy supplies.

Develop some of Europe's most advanced energy system modelling

Our modelling team produces sophisticated and flexible forecasting of energy markets through in-house models that set us apart from other companies. As a modeller at Aurora, you will contribute to our modelling efforts by enhancing our modelling methodology, developing analytical and computational tools, and supporting project work with a strong understanding of our modelling ability. You will be the technical expert on our model in a variety of projects and offer insight and support to our analytical teams.

Graduate Programme

Apply and develop your problem solving and analytical skills to enhancing our modelling suite

At Aurora, you will apply the skills you have developed through your studies to solving some of our clients' most interesting and intricate problems. Whether you are finishing your undergraduate degree or studying at postgraduate level, you will grow and develop through a mix of structured training programmes and on-the-job learning. We will help you raise your abilities to the next level, preparing you to contribute to projects, communicate complex ideas across the company, nurture teams, and push our modelling capabilities to meet client and internal needs.

Join a diverse, ambitious, friendly and supportive team

We're committed to building a company where everyone can achieve their potential in an inclusive and welcoming environment. Aurora brings together people from over 40 countries around the world and with a broad range of professional and life experiences in order to co-operate to find smarter ways to solve problems. Through initiatives like our Women at Aurora network, we seek to provide further support and opportunities for groups under-represented in the energy sector.

Help build a rapidly growing and innovative company

Founded in 2013, Aurora has grown rapidly to around 350 people but retains the entrepreneurial atmosphere of a start-up. We continue to seek opportunities from new markets, modelling approaches and ways of thinking. At Aurora, you will learn from leading experts on the energy markets, develop your own ideas and help map out the future course for our business.

Influence the public debate and inform the strategy of high-profile clients

Our clients include government agencies from the UK, Europe, Australia, US and beyond, as well as investors, international energy companies, and generators responsible for most of Europe's electricity. At Aurora, our modelling is used directly to create the insights used for reports for our clients through consulting projects and subscriber meetings that regularly attract hundreds of delegates from across the energy sector. Aurora's work is covered extensively in the media, and has been influential in changing the course of policy decisions in our key markets.



“ There is a great social scene in the office, with lots of team events from sports days to go-karting. Christ Church Meadow is over the road and at lunchtimes in the sun it's easy to get a group together for a picnic. Everyone is so supportive and friendly, both inside and outside work. ”

Emma Mitchell

Graduate Programme

Our culture

Work and wellbeing

We believe that we make better contributions in the long term if we keep a balance between work and the rest of our lives, even though our projects can be demanding at times. Our managers carefully track teams' wellbeing to stay aware of how this balance stands. Our UK office is in Oxford, where a combination of historic architecture, rich culture and lush countryside contribute to a high standard of living.

Development

New joiners are the potential future leaders of our business, and we provide a broad suite of development opportunities, including regular content talks from our experts, sessions with external speakers, and a programme of skills-focussed training. Our rapid expansion into new countries and products provides exciting opportunities for growth and development. Once you have reached a certain stage in your career, there will be opportunities to work from other Aurora offices such as our Austin office.

Making a difference

We are passionate about the role we can play in contributing to the global energy transition. As we serve our clients and develop Aurora as a company, we know that we are also helping to make a difference to the future by supporting smarter, better-informed decisions throughout the sector.

Community

We have a warm and supportive office environment, and people at Aurora often organise activities together outside of work. These have included cake baking, pub quizzes, charity runs, picnics and an office football team, open to all abilities with weekly sessions. There is also a programme of regular social events run by the company to help teams connect and get to know each other better.



“ In Aurora, I am able to apply my knowledge and skills to solve challenging problems for our clients, while having the flexibility and support to develop new skills. There are many internal training and content update sessions to choose from, allowing the freedom to focus career growth based on my interests. ”

Zie Chua

Graduate Programme

Our Graduate Modelling Programme

For recent graduates joining Aurora's Oxford modelling team, in your first year you can expect to:

- Undergo rigorous training on our modelling methodology and the energy markets we are modelling
- Contribute to some of the most advanced energy market models in the industry
- Have close involvement in live client projects as the technical modelling expert

A modeller's role is highly varied depending on ongoing projects, and your responsibilities can include:

- Contributions to the long term development of our modelling suite to improve the quality and value of our modelling results
- Liaising internally with analysts and other stakeholders across the company to ensure that our modelling is meeting project requirements
- Developing analytical and computational tools, formatting recommendations on future trends, and conveying these insights to enhance clients' decision making

Most project work in modelling involves close interaction with other teams across Aurora, including:

- **Advisory:** executing bespoke consulting projects for clients, involving complex project-specific model developments to meet client needs
- **Research:** developing market forecast reports and original in-depth research on the future of energy markets, with a modelling focus on the accuracy of the market behaviour being modelled and the quality of results
- **Software Solutions:** developing new services for our clients which directly use our models or modelling results

Aurora's Analyst and Modelling Graduate Programmes are two unique paths, both roles having distinct responsibilities and expectations:

- Analysts develop our market research reports and help solve client problems through consulting projects. They design and execute analysis to address clients' questions, working with the modelling team to apply Aurora's models and draw out the most useful insights from our results
- Modellers build and maintain our in-house modelling suite, working closely with analysts to meet clients' needs. The modelling role involves programming and problem solving, requiring modellers to understand analyst needs as well as clearly communicate complex modelling topics across the team

Our application process

If you are a final year university student or recent graduate interested in joining Aurora's Oxford office as part of our Graduate Modelling Programme in Autumn 2023, please visit our website at auroraer.com/grads.

Whilst our Oxford Graduate Modelling Programme commences in Autumn of 2023, if you are looking to start work prior to Autumn, we would welcome an application from you. We are happy to be flexible with your start date.

When you apply to join the Aurora Graduate Modelling Programme, your application will go through the following stages:

CV screening

Our screening team will review your CV and cover letter and agree whether to invite you to an interview.

First round interview

We will arrange to speak with you on Microsoft Teams for just under an hour. We will want to learn more about how you have shown your abilities in your past experiences, and quantitative questions where you can demonstrate how you think through and solve problems.

Final round interviews

If you are successful in our first round interview, we will invite you to visit our Oxford office. During the visit, you will have a second interview lasting about an hour. The second interview builds on the first, exploring the role and your motivations, followed by some quantitative questions and a case study.

Offers

If you are successful in our final round interview, we will make you an offer of a position at Aurora, to begin work in our Oxford office around the Autumn of 2023

Apply today! Go to
auroraer.com/grads

Graduate Programme

What we look for

Our Graduate Modelling Programme is open to you if you have studied a relevant degree, Masters or PhD in Economics, Engineering, Mathematics or Computer Science or other quantitative fields. Our team look for evidence of the following qualities in applications:

- Exceptional problem solving skills and analytical ability
- An ability to collect, analyse and interpret complex quantitative data and information
- Strong interpersonal skills, and a great team player
- Some knowledge of one programming language, e.g. C++, Matlab, Python, R, Java

It would also be beneficial to have:

- A relevant Master's degree or PhD
- Knowledge of and interest in energy markets, and a belief that well-designed models significantly improve decision making
- Knowledge of statistical and/or optimisation techniques

The Company is committed to the principle that no employee or job applicant shall receive unfavourable treatment on grounds of age, disability, gender reassignment, race, religion or belief, sex, sexual orientation, marriage and civil partnership and pregnancy and maternity.



Do you want to contribute to the
global energy transition through analysis,
modelling, research and data?



Kickstart your career in the energy industry with the Aurora Graduate Modelling Programme

Join Aurora Energy Research, the largest dedicated power market analytics company in Europe, providing data-driven intelligence for strategic decisions in the global energy transformation.

We work with world-leading organisations to provide comprehensive market intelligence, bespoke analytic and advisory services, and cutting-edge software.

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FIND OUT MORE**



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Aurora offers amazing opportunities for growth. In just over three months I have already worked on a number of exciting projects with other departments and have had the chance to peek into the current problems and mechanics of the energy industry. All alongside talented, friendly and inspiring individuals!



Sara Moreno, Energy Modelling Analyst



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**CRITICAL
ENERGY
MARKET
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