

Climate Risk Analytics Placement and Internship Programme

A programme designed to develop the physical climate risk analytics skills and talent pool for the finance sector.

6 Month Internship: Research Climate Scientist at JBA Risk Management



UK CGFI Climate Risk Analytics Internship Programme

Co-created and co-funded internship aimed at enhancing physical climate risk analytics skills and expanding the talent pool within the finance sector.

<https://www.cgfi.ac.uk/leeds-innovation-hub/>



Application closing date:	12pm, Friday 6 th September 2024
Start date:	1 st November 2024
Length of role:	6-months
Hours per week:	Full-time (37.5 hours) only
Open to:	Postgraduate Research Students <ul style="list-style-type: none">• PhD students with supervisor's approval to suspend studies for 6-months or have recently completed their thesis.• Masters students who are due to complete their studies by the internship start date.• Must be eligible to work in the UK (full-time 37.5hrs) for the duration of this opportunity.
Location:	Hybrid; at least 2-days per week in the JBA Offices (1 Broughton Park, Old Lane North, Broughton, Skipton, BD23 3FD)
Salary:	£25–30k (pro rata)
Number of positions:	1

Organisation and Project Outline

Known as The Flood People®, JBA Risk Management's flood maps, catastrophe models, and data are used by some of the world's largest insurers, reinsurers, financial institutions, property companies and governments. We're experts in translating complex, scientific data into useful information, using sophisticated hydraulic approaches and models to provide cutting-edge flood risk intelligence.

As part of the JBA group, a specialist environment, engineering and risk consultancy business established over 25 years ago, we work closely with leading academic institutions in the field of flood risk. We are committed to exceptional service and helping clients and communities build resilience to flood and environmental risk in a changing climate. We're leading the way to integrate science and technology to provide our clients with a forward-thinking view of climate resilience.

We invest in our staff's mental health and wellbeing, encouraging our staff to maintain a healthy work-life balance and organising social activities from bake sales and book clubs to badminton. We also invest in the wider community by funding our own charitable foundation, the JBA Trust, supporting sustainability initiatives such as tree planting, and facilitating outreach visits by our team of STEM ambassadors.

We are committed to creating and sustaining a working environment in which everyone has an equal opportunity to fulfil their potential and we welcome applications from suitably qualified people from all sections of the community.

Main Duties and Objectives

This internship project asks how should we calculate present day flood risk?

Every 0.1°C of global warming “loads the dice” for extreme events. This leaves us to ask whether historical data can reflect current flood risks from these extremes, a crucial question for our clients and their regulators. Throwing in the complexities of translating global change to local risk and the impacts of land use change, makes this a challenging problem.

You will work with JBA experts in climate science, statistics, and flood and catastrophe modelling, alongside academics from the Centre for Greening Finance and Investment at the University of Leeds. Under this guidance, and tailored to your skills, your task will be to generate new understanding and investigate new approaches to answering the internship question, using observations and modelling, including JBA’s suite of catastrophe and flood models.

What induction and ongoing training will be provided?

You will complete our standard PhD intern induction, which includes essential health and safety information as well as material to familiarise you with the company and its operations.

Additional training will be provided for JBA’s catastrophe risk models and suite of internal software.

Other training needs will be met as required, which can be discussed in weekly meetings with your line manager and/or wider project team.

Benefits and Outcomes

Company Benefits

Annual leave – 20 days per year plus bank holidays (pro rata)

Management / Supervision

Your line manager will be Head of Science, Dr Paul Young. You will work day-to-day with Paul, Dr Jennie Dentith, and a wide range of colleagues across different areas of the company. You will also meet online with your UK CGFI mentor who will offer guidance and support.

Contact Information

To explore this post further or for any queries, please contact Paul for an informal chat about the position: paul.young@jbarisk.com

Person Specification

What skills and attributes will you bring?

You must be a current PhD student or have recently submitted your thesis prior to the start date, or be a Master's student due to complete your studies by the start date.

We are seeking a candidate who aligns well with our company values. We prioritise individuals who take responsibility, foster trust, and demonstrate innovation. We value diversity and offer a supportive, challenging environment dedicated to consistently delivering high-quality, meaningful work.

Essential

- A undergraduate degree in any science or an MSc in a climate-related field
- Strong quantitative skills
- Experience with scientific computing and handling large environmental datasets

Desirable

- Good programming skills in Python (or equivalent programming language and willingness to learn Python)
- Knowledge of climate change, extreme weather, and its impacts
- Advanced knowledge of statistics, including extreme value theory.
- Respect for diversity and contribution to an inclusive work environment
- Openness to experimenting with new ideas and technologies
- Ability to convey complex technical information to non-technical stakeholders

How to apply

Application Help

- Please ensure you demonstrate in your supporting statements (equivalent of a covering letter) and CV how you match the person specification. We advise applicants to have their application forms checked by making an appointment via [MyCareer](#). *Same Day Appointments* can be booked from 9am each Monday, Wed and Fri for appointments between 2pm and 4pm. You can also book *Application Checks* via MyCareer.
- Please note if you do not submit both your CV and supporting statements, your application will not be considered.

Eligibility

- You must be eligible to work in the UK for the duration of the placement. Information is available at <http://www.ukba.homeoffice.gov.uk/> or from the International Student Office on campus http://students.leeds.ac.uk/info/10500/international_students/877/international_student_office

Support for applicants with disabilities, impairments or health conditions:

- We want to make sure that all candidates have equal access to our recruitment and selection procedures. If you have a disability, impairment or long-term health condition that may affect your ability to submit an application, or if you need any adjustments to be able to attend an interview, take part in the selection process or to carry out the job you are applying for, please send details to Kate Gilbertson at k.gilbertson@leeds.ac.uk. This will enable us to make any reasonable adjustments. Any information provided will not inform any part of the recruitment and selection process.