

The Alan Turing Institute

Theme Lead – AI for Climate Resilience (Principal Research Scientist)

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There has never been a more significant time to work in data science and AI. There is recognition of the importance of these technologies to our economic and social future: the so-called fourth industrial revolution. The technical challenge of keeping our data secure and private has grown in its urgency and importance. At the same time, voices from academia, industry, and government are coming together to debate how these technologies should be governed and managed. The Alan Turing Institute, as the UK's national institute for data science and artificial intelligence, plays an important part in driving forward advances in these technologies in order to change the world for the better.

The Institute is named in honour of Alan Turing, whose pioneering work in theoretical and applied mathematics, engineering and computing is considered to have laid the foundations for modern-day data science and artificial intelligence. The Institute's purpose is to make great leaps in data science and AI research to change the world for the better. Its goals are to advance world-class research and apply it to national and global challenges, build skills for the future by contributing to training people across sectors and career stages, and drive an informed public conversation by providing balanced and evidence-based views on data science and AI.

After launching in 2015 with government funding from EPSRC and five founding universities, the Institute has grown an extensive network of university partners from across the UK and launched a number of major partnerships with industry, public and third sector. Today it is home to more than 300 researchers, a rapidly growing team of in-house research software engineers and data scientists and a business team.

BACKGROUND

In an era of increasing environmental volatility, weather and climate prediction are crucial for national security and global resilience. These capabilities provide the early warning systems required to protect infrastructure and ensure the security of food, water, and energy. This field is being fundamentally re-engineered by Artificial Intelligence; global climate AI models are now thousands of times faster than traditional climate simulators allowing for rapid scientific exploration and timely, informed decision making. However, more research is required to integrate climate physics and dynamics in these models to further enhance their predictive capabilities. Developing sovereign AI capabilities in this space is essential to ensure the UK possesses the independent and trusted tools to manage climate risk and accelerate decision-making.

ROLE PURPOSE

The Environment Forecasting Mission advances AI-enabled forecasting to deliver practical decision intelligence, protecting people and infrastructure from extreme weather, securing the Arctic, and providing operational climate intelligence for global development and adaptation.

1. Weather Forecasting for National Security

Providing critical decision intelligence to anticipate and manage risks from extreme weather, protect people and infrastructure, and support resilient supplies of food, water, and energy.

2. Sea-Ice Forecasting for Arctic Resilience

Developing AI-powered sea ice prediction to support safe navigation, protect polar communities and ecosystems, and build situational awareness across a rapidly changing Arctic.

3. Climate Prediction for Global Development and Adaptation

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Delivering climate intelligence in data-sparse regions to support food security, public health, and climate adaptation in low- and middle-income countries.

As a Theme Lead for our Environment Mission, you will direct a high-priority research portfolio at the cutting edge of AI and climate resilience. Working alongside key stakeholders like the UK Met Office and UNEP, you will tackle real-world challenges to shape a national priority at a transformative moment for the field.

We are seeking a leader with an outstanding track record in AI and environmental science and a passion for multidisciplinary, impact-driven collaboration. Reporting to the Mission Director for Environmental Forecasting, you will provide strategic leadership and line management for researchers and engineers. This is a standout opportunity to define the future of national research within a world-leading institute.

HOW YOU WILL MAKE AN IMPACT

You will ideally have an international profile as a researcher working in one or several disciplines, with experience of project delivery and leading a research team with a focus on weather forecasting. You will be expected to work closely with mission leadership to:

- Lead the development of the research strategy for climate resilience and ensure strategic links between other research themes and missions.
- Lead on the technical oversight of project proposals that are within the area of research, that includes, but is not limited to, proposed activities, resource plan, timeline, deliverable outputs and budget.
- Lead grant proposals and bids for funding within the thematic area of AI and climate resilience.
- Represent the Theme in meetings, and external conversations with key stakeholders. Deputise for the Mission Director as needed.
- Work with Partnerships team to establish collaborations both nationally and internationally to enable operationalisation of outputs.
- Communicate technical topics to colleagues and external partners by preparing presentations, reports, blogs, podcasts.
- Inform funders and the Turing Leadership on appropriate use of funds within your team, in line with institute processes.
- Work with other Turing support functions (e.g., Programme Management, Research Engineering Group, Finance, Communications, Events and Legal teams) where appropriate.
- Line manage staff within the theme, supporting their career development aspirations.

Please note that job descriptions cannot be exhaustive, and the postholder may be required to undertake other duties, which are broadly in line with the above key responsibilities. This job description is written at a specific time and is subject to changes as the demands of the Institute and the role develop.

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PERSON SPECIFICATION		
Skills and Requirements Post holders will be expected to demonstrate the following:	Essential (E) Desirable (D)	Tested at application (a) Tested at interview (i)
Knowledge and Experience		
A strong track record and experience in a relevant area, e.g., machine learning, AI, computer science, mathematics, statistics, physics, engineering, environmental science	E	A, I
Leadership and strategic vision skills, especially as required in a complex collaboration with external partners	E	A, I
Evidence of leading grant applications and securing external funding	E	A
Excellent communication, negotiation and influencing skills at all levels	E	A, I
Able to identify and present key information, highlighting any potential issues as required, to influence future plans	E	A, I
Commitment to EDI principles and to the Organisation values	E	I
Experience in modelling of complex systems	D	A, I
Experience leading projects from ideation, scoping, and delivery through to impact	D	A, I
Ability to coach and mentor others with the ability to provide sound advice, develop team knowledge and improve team efficiency	D	A, I

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APPLICATION PROCEDURE

If you are interested in this opportunity, please click the apply button below. You will need to register on the applicant portal and complete the application form including your CV and covering letter. If you have questions about the role or would like to apply using a different format, please contact us at recruitment@turing.ac.uk.

CLOSING DATE FOR APPLICATIONS: SUNDAY 7 JUNE 2026 AT 23:59 (LONDON, UK, BST)

TERMS AND CONDITIONS

This full-time post is offered on a fixed term basis for 3 years. The annual salary is £78,004 – £85,000 plus excellent benefits, including flexible working and family friendly policies, [Employee-only benefits guide | The Alan Turing Institute](#)

The Alan Turing Institute is based at the British Library, in the heart of London's Knowledge Quarter. We expect staff to come to our office at least 4 days per month. Some roles may require more days in the office; the hiring manager will be able to confirm this during the interview.

EQUALITY, DIVERSITY AND INCLUSION

The Alan Turing Institute is committed to creating an environment where diversity is valued and everyone is treated fairly. We value diversity of background, experience, and perspective, and are proud to be an inclusive employer. We warmly encourage applications from all backgrounds, particularly from groups currently under-represented in our sector. If you feel passionate about this role but don't meet every single requirement, please apply — we recognise that great candidates may bring strengths beyond the criteria listed.

We are committed to making sure our recruitment process is accessible and inclusive. This includes making reasonable adjustments for candidates who have a disability or long-term condition. Please contact us at recruitment@turing.ac.uk to find out how we can assist you.

Please note all offers of employment are subject to obtaining and retaining the right to work in the UK and satisfactory pre-employment security screening which includes a DBS Check.

Full details on the pre-employment screening process can be requested from HR@turing.ac.uk.

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OUR VALUES

The Alan Turing Institute is committed to equality diversity and inclusion and to eliminating discrimination. All employees are expected to embrace, follow and promote our [EDI Principles](#) and Our Values.

Our values



Trust

We create an environment where we have trust and can be trusted



Inclusivity

We expect our Turing community to contribute to a culture that is inclusive and free of barriers



Respect

We all have different roles, priorities and challenges but our shared purpose is the same



Leadership

Leadership is everyone's business; Turing leaders set the right tone and lead by example



Transparency

Everyone should understand the how and the why of our decisions and actions



Integrity

We are all ambassadors for the Turing's mission of changing the world for the better