



Job Description

Summary

Job title	Research Associate in Risk and Resilience Analytics (Climate and Nature), Resilience and Development Group
Division	Social Sciences
Department	Environmental Change Institute (ECI), School of Geography and the Environment
Location	South Parks Road, Oxford OX1 3QY
Grade and salary	Grade 7: £36,024- £44,263 p.a. If no suitable applicant is forthcoming an appointment at Grade 6 £32,332 - £38,205 (with an appropriate adjustment of duties) may be considered.
Hours	Full time
Contract type	Fixed-term to 31 December 2025, with possibility of extension
Reporting to	Dr Nicola Ranger
Vacancy reference	170746
Additional information	The School of Geography and the Environment holds an Athena Swan Silver award in recognition of our commitment and success in addressing gender equality. The School of Geography and the Environment is committed to promoting a culture of equality, diversity, and inclusion in the workplace, including the undertaking of appropriate training as opportunities arise and/or when asked to do so.

The Programme

The ECI Resilience and Development (R&D) Group spans natural sciences, economics and finance and aims to increase understanding of the relationships between environmental change, the economy, the financial system, and people, and develop science, analytics, tools, evidence and solutions to secure a resilient, inclusive and sustainable future. We work



collaboratively with governments, international organisations, financial institutions, regulators, industry, other universities and civil society organisations at local and global levels to help align policy, finance and global systems with sustainability and resilience goals, to protect people and planet and secure prosperity for all. We work at the intersection of climate, nature, water, food, health, infrastructure, economy and finance – providing analytics and evidence to support decision makers to embed resilience and sustainability into policy, planning and investments. Our focus is on informing and delivering solutions across sectors and scales, from individual resilient investments, innovative financial products, local adaptation policy and planning, to embedding resilience into the global financial system and multilateral institutions.

The Group leads and contributes to several major UK and international initiatives, including the Oxford Martin School Systemic Resilience Programme, the NERC-funded Integrating Finance and Biodiversity for a Nature Positive Future (IFB) programme, the FCDO-funded Climate Compatible Growth programme, the Leverhulme Centre on Nature Recovery and the Resilient Planet Finance Lab and Data Hub. The Resilient Planet initiative is a multi-partner initiative that was launched at COP28 in collaboration with the High Level Climate Champions Race to Resilience campaign, the Insurance Development Forum, Google and the UN Office for Disaster Risk Reduction and as part of this, the ECI delivers several high quality and impact, academic applied research projects on resilience and nature working with stakeholders across the public and private sector.

The Role

The researcher will be an important part of the Resilience and Development Group of the Environmental Change Institute, with the opportunity to contribute to and/or lead one or more defined projects across our research portfolio, including the Resilient Planet Initiative, the Oxford Martin Programme on Systemic Resilience and the IFB Programme, for example:

- Co-developing analytics and tools with local adaptation planners and financiers in developing countries and global institutional investors and development financiers, with focus on developing new approaches to incorporate risk and social vulnerability metrics into decision making for infrastructure and nature-based solutions
- Working with Central Banks and Ministries of Finance in Africa, Asia, Latin America and the Caribbean on build financial resilience to climate and nature risks and put in place sustainable finance frameworks to help mobilise investment.
- Supporting climate compatible growth through evidence and tools to integrate resilience into fiscal and economic policies, and enhance the blended finance architecture
- Collaborating with the World Bank and IMF on analytics to build fiscal resilience and explore how the multilateral system can support resilience and nature-positive goals
- Working with banks, insurers, asset owners and asset managers to design metrics and frameworks to integrate resilience and nature into their business strategies and risk management frameworks and design new products to support resilience and nature.
- Designing new forms of analytics and metrics to measure the impact of investments on nature and resilience goals and measure the alignment of firms.

- Contributing to our work on global systemic resilience, including learning from past shocks, building the next generation of predictive and exploratory models and working with global stakeholders to integrate systemic resilience in global risk governance.
- Exploring approaches to integrating risk into early warning systems and local to global disaster risk financing systems for crises globally
- Contributing to our global collaboration to develop open globally-consistent risk analytics and tools as part of the Resilient Planet Data Hub.

You will contribute to research on quantitative and qualitative methods, metrics, frameworks and tools to assess risks and identify resilience solutions. The focus will be on delivering evidence and tools, in collaboration with stakeholders, to help build resilience for people and planet and secure a resilient, sustainable and nature-positive future. To do this, you will have the opportunity to work closely with decision makers at all levels, both locally and globally, across countries and both the public and private sector to co-develop real solutions that have a positive impact on people, planet and prosperity. You will work in interdisciplinary teams as part of academic research collaborations across Oxford, the UK and internationally and have opportunities to lead applied research projects with a wide range of stakeholders, including civil society organisations, multilateral development banks, Central Banks and supervisors, banks, insurers, asset owners and asset managers and government.

The researcher will report to Dr Nicola Ranger in the Environmental Change Institute, the Programme Leader on Resilience and Development and also work closely with Professor Jim Hall, Director of the Oxford Programme on Sustainable Infrastructure Systems at the ECI, and Professor Michael Obersteiner, Director of the ECI, as well as other senior researchers across the university and internationally. The successful candidate will be a member of the ECI Resilience and Development group and will play an active role in the development of group research and engagement activities. You will be responsible for defined research project(s) within a discrete area of the wider ECI R&ID research programme.

The successful candidate will be expected to contribute to day-to-day project management within the ECI R&D programme, including fundraising, reporting, guidance and day-to-day supervision to junior members of the team including research assistants and DPhil (PhD) students, and engagements with stakeholders across the public and private sphere globally.

Responsibilities/duties

- Manage own academic research and administrative activities. This involves small scale project management, to co-ordinate multiple aspects of work to meet deadlines
- Actively participate in and lead tasked scientific activities and contribute to the scientific development of projects. Apply, develop, adapt and implement new research methods.
- Prepare working theories and analyse qualitative and/or quantitative data from a variety of sources, reviewing and refining theories as appropriate
- Contribute to and lead publications in highly-ranked, peer-reviewed academic journals, as well as book chapters and reviews. Present papers at national conferences, and lead seminars to disseminate research findings.

- Contribute ideas for new research projects, including exploring further opportunities for novel research on climate and environmental risks and resilience solutions.
- Develop ideas for generating research income, and present detailed research proposals to senior researchers
- Act as a source of information and advice to other members of the group on methodologies or procedures
- Represent the research group at external meetings/seminars, either with other members of the group or alone
- Carry out collaborative projects with colleagues in partner institutions, and research groups. Engage with stakeholders from policy and private sector and work with them to develop analytics of relevance to decision making in a wide range of use-cases.
- In support of the development of your research, and as a secondary commitment, undertake some teaching within SoGE including engage in assessment and university examining
- Contribute to and enhance the academic life and community of the SoGE including taking on citizenship roles.

Selection criteria

Essential

- Hold a relevant PhD/DPhil (Grade 7), or be close to completion of, a relevant PhD/DPhil (Grade 6).
- Quantitative research skills and experience working with large datasets, including coding (R, Python preferred), combining and standardising data from multiple sources
- Possess sufficient specialist knowledge in the discipline to work within established research programmes, including experience in climate and environmental risk assessment, economics and/or applying models and analysis in practice in decision making.
- Ability to manage own academic research and associated activities
- Previous experience of contributing to research articles for publication
- Ability to contribute ideas for new research projects and research income generation
- Excellent communication skills, including the ability to write for publication, present research proposals and results, and represent the research group at meetings
- Experience and strong interest in one or more of the following: adaptation and resilience; risk assessment; systems analysis and modelling; early warning systems; and/or decision theory; nature-related risks and impacts; food systems, infrastructure systems; climate change; environmental science; disasters; trade and supply chains

Desirable

- Experience of independently managing a discrete area of a research project
- Experience with organising research networks and/or stakeholder engagement work
- Experience of working as a researcher or practitioner in/with government, private or development finance or industry

Pre-employment screening

Standard checks

If you are offered the post, the offer will be subject to standard pre-employment checks. You will be asked to provide: proof of your right-to-work in the UK; proof of your identity; and (if we haven't done so already) we will contact the referees you have nominated. You will also be asked to complete a health declaration so that you can tell us about any health conditions or disabilities for which you may need us to make appropriate adjustments.

Please read the candidate notes on the University's pre-employment screening procedures at: <https://www.jobs.ox.ac.uk/pre-employment-checks>

About the University of Oxford

Welcome to the University of Oxford. We aim to lead the world in research and education for the benefit of society both in the UK and globally. Oxford's researchers engage with academic, commercial and cultural partners across the world to stimulate high-quality research and enable innovation through a broad range of social, policy and economic impacts.

We believe our strengths lie both in empowering individuals and teams to address fundamental questions of global significance, while providing all our staff with a welcoming and inclusive workplace that enables everyone to develop and do their best work. Recognising that diversity is our strength, vital for innovation and creativity, we aspire to build a truly diverse community which values and respects every individual's unique contribution.

While we have long traditions of scholarship, we are also forward-looking, creative and cutting-edge. Oxford is one of Europe's most entrepreneurial universities and we rank first in the UK for university spin-outs, and in recent years we have spun out 15-20 new companies every year. We are also recognised as leaders in support for social enterprise.

Join us and you will find a unique, democratic and international community, a great range of staff benefits and access to a vibrant array of cultural activities in the beautiful city of Oxford. For more information, please visit www.ox.ac.uk/about/organisation.

School of Geography and the Environment

The School of Geography and the Environment (SoGE) is a dynamic, diverse, interdisciplinary department at the University of Oxford combining natural and social science

research interests and analytical skills, underpinned by geography's tradition of working in many different situations and contexts. The School is internationally recognized for the quality of its teaching, research and wider engagement across the breadth of human geography, physical geography and environmental studies. Based within the Social Sciences Division, the School incorporates three affiliated research centres as well as Geography: the Environmental Change Institute (ECI), the Smith School of Enterprise and Environment (SSEE), and the Transport Studies Unit (TSU).

The School is based partly within the Oxford University Centre for the Environment (OUCE) building and partly in the Dyson Perrins building, which was completely refurbished in 2022. The School's physical location enables us to easily connect with many academic departments and organisations across the University, and we collaborate with many of them. For example, the School is an active participant in fostering the Oxford University Networks for the Environment (ONE), which links up over 1000 individuals within the University around the themes of Biodiversity, Climate, Energy, Food and Water.

Our research spans issues related to the environment, climate change, energy, transport, development, geopolitics and cities. The School's research portfolio totalled approximately £105million across more than 170 research projects in 2021/22, from a wide variety of funders.

Much of this work is collaborative, and we currently estimate that research with our partners takes place in over 70 countries across the globe. We aim to contribute to the common good, and many of our researchers actively engage in advising local, national and international organisations; in giving written and oral contributions to government consultations both locally and nationally; and in engaging with others through policy, partnerships, business and social enterprise.

The School also provides world-class, multidisciplinary teaching. Our Undergraduate Honour School gives undergraduate students research-led teaching across the breadth of human and physical geography and environmental studies by internationally recognised academic staff. Two hundred and fifty graduate students from a wide range of nationalities currently study for taught and research postgraduate degrees with us, in our International Graduate School. For more information the School please visit: <http://www.geog.ox.ac.uk>

The School is committed to supporting the career development of all its members. Everyone is encouraged to undertake professional training from the range offered by the School, the Division and the University's People, Organisation and Development Unit. The School has a mentoring scheme and all staff are encouraged to work with a mentor during their time at SoGE; academic staff are also encouraged to have regular meetings with the Head of School to plan their career progression.

Since 1973 the **Transport Studies Unit** has established an international research reputation in transport research. Based within the world-leading School of Geography and the Environment at the University of Oxford, the TSU approaches global transport challenges from social science and holistic perspectives. By advancing understandings of the systems, processes and practices that shape the way people and goods move, the TSU hopes to inspire and inform change towards a more sustainable, just and accessible transport system. Our position within Geography and the University fosters interdisciplinary collaboration with researchers in other parts of the University and based elsewhere.

From geography to engineering, energy research to science and technology studies, and beyond, the TSU draws on the latest relevant developments in various disciplines and research fields. Our core team of researchers come from various disciplinary backgrounds,

bringing with them a range of insight and expertise which enriches our research practice. Most TSU staff are full-time researchers working on specific externally funded projects. In addition to the core staff, it also hosts a number of academic visitors working more independently on cross-cutting issues. There is also an active group of international DPhil students working with individual staff.

The TSU has an excellent track record in collaborative projects. TSU researchers often work in partnership with colleagues in many UK universities, and has very active and well-established links with universities and research institutes across the EU, the Americas, Asia and Africa. They also work with partners from international agencies, transport policymakers, local authorities, businesses and industry, employers, non-governmental organisations, and activists.

For more information on the TSU please visit: <http://www.tsu.ox.ac.uk>

Since 1991, the **Environmental Change Institute** has worked alongside partners in government, business, academia and the community to understand environmental change and explore possible responses to the risks and opportunities it poses. Promoting an interdisciplinary approach, ECI explores sustainable solutions to global problems ensuring a fairer and more equal world for people today and in the future.

ECI has over 100 academics and researchers working around the world, establishing itself as an active and influential player in environmental change science. With a well-established track record in relation to Infrastructure, climate, energy, ecosystems, food, land use governance and water.

ECI is a leading player in a number of large research activities. In 2022 there are over 80 research projects totalling over £57 million funded through the UK's research councils and charitable foundations and trusts. We are proud of all our work but of particular note we host the multi-agency UK Centre for Research into Energy Demand Solutions (CREDS), understanding the role of energy demand change in accelerating the transition to a zero carbon energy system. As part of Oxford University's strategic research Oxford Net Zero is an interdisciplinary research initiative working to track progress, align standards and inform effective solutions in climate science, law, policy, economics, clean energy, transport, land and food systems and greenhouse gas removal and storage.

In addition, The Oxford Programme for Sustainable Infrastructure Systems (OPSIS) is at the forefront of research and education to enable sustainable and resilient infrastructure. While the Leverhulme Centre for Nature Recovery Centre aims to investigate how to halt and reverse ongoing nature and biodiversity loss, by understanding how implement and finance nature recovery that is scalable, effective and socially just.

The ECI is also home to the MSc in Environmental Change and Management, the School's first taught postgraduate masters 'programme, established in 1994. Through this MSc the ECI have successfully trained over 700 upcoming environmental leaders who comprise a lively and increasingly influential alumni community. For more information on the ECI please visit: <http://www.eci.ox.ac.uk>

The Smith School of Enterprise and the Environment (SSEE) was established at the University of Oxford in 2008 with a generous benefaction by the Smith family. We bring enterprise – public and private - together with world-leading teaching and research to achieve global net-zero emissions and sustainable development. Located within the internationally top-ranked School of Geography and the Environment, we work in close collaboration with leading academics across Oxford and beyond.

Decisions made this decade will determine the future of humanity and the planet. To stop the climate crisis, we need to shift global economic and financial systems towards sustainability. The Smith School's approach combines academic excellence with real-world impact. Our research shapes business and government policy and practice. We offer innovative evidence-based solutions to the environmental challenges facing humanity.

We apply expertise in economics, finance, business and law to tackle environmental and social challenges in six areas: water, climate, energy, biodiversity, food and the regenerative economy.

We equip the next generation through undergraduate and graduate teaching as part of the top-ranked School of Geography and the Environment. SSEE's [new master's course in Sustainability, Enterprise and the Environment \(MSc SEE\)](#) is already one of the most applied to at Oxford. Our executive education programmes empower business leaders and policy-makers throughout the world to take action.

SSEE's [Advisory Board](#), [Business Fellows](#) and our wide-ranging external partnerships bring together experts from industry, consultancy, governments and NGOs to achieve the vision of a cleaner, fairer and more prosperous future

Social Science Division

The University's academic departments and faculties are organised into four large groups, known as Academic Divisions (Social Sciences, Mathematical, Physical and Life Sciences (MPLS), Medical Sciences, and Humanities). The academic divisions are responsible for academic oversight of the teaching and research of their constituent departments and faculties, for strategic and operational planning, and for personnel and resource management. The Head of the Social Sciences Division is Professor Timothy Power, who is a member of the University's Council. The Social Sciences Division is a world-leading centre of research and education in the social sciences. The social sciences at Oxford are distinctive for both their depth and breadth, with activity spanning fourteen departments and faculties and one cross-divisional unit. (These are as follows: Law, the Saïd Business School, Economics, Politics and International Relations, the Blavatnik School of Government, the School of Anthropology and Museum Ethnography, International Development, Sociology, Social Policy and Intervention, the Oxford Internet Institute, Archaeology, the School of Interdisciplinary Area Studies, Education, the School of Geography and the Environment and the Oxford Martin School.) Interdisciplinary links within and beyond the university are strong, extending to the humanities, natural sciences, and medical sciences.

Academic and research staff and research students are engaged in world-leading research that challenges current ideas and theories and is tackling some of the major challenges facing humanity, such as sustainable resource management, migration, governance, poverty and development, and justice. REF 2014 confirmed Oxford as the UK powerhouse for research in the social sciences, where Oxford accounted for more world-leading (4*) research than any other institution, across the social sciences units of assessment to which it made submissions. The division has an extensive portfolio of external funders and collaborators, with competitively-awarded external research income exceeding £40million per year. Researchers in the division engage actively beyond academia and their research has influence in many spheres from innovation in public policymaking to practitioner communities such as law, business, education, social welfare and NGOs.

The division also delivers an exceptional range of high quality educational programmes (undergraduate, postgraduate taught and postgraduate research), all of which are

underpinned by the innovative research being undertaken by our academics. Programmes range from those at the interface of the natural sciences, through to professionally-oriented provision in areas such as business, law and education. The division is home to several of Oxford's most widely recognised teaching programmes, such as Philosophy, Politics and Economics (PPE); the BCL; the MPhils in International Relations, in Economics, and in Development Studies; the MBA and EMBA; and the nationally regarded PGCE.

For more information please visit: <http://www.socsci.ox.ac.uk/>

How to apply

Applications are made through our online recruitment portal. Information about how to apply is available on our Jobs website <https://www.jobs.ox.ac.uk/how-to-apply>.

Your application will be judged solely on the basis of how you demonstrate that you meet the selection criteria stated in the job description.

As part of your application you will be asked to provide details of two referees and indicate whether we can contact them now.

Include the paragraph below if you are asking candidates to submit a CV and supporting statement. If you are using the application form with in-built supporting statement there is no facility for applicants to attach documents so this paragraph should be removed.

You will be asked to upload a CV and a supporting statement. The supporting statement must explain how you meet each of the selection criteria for the post using examples of your skills and experience. This may include experience gained in employment, education, or during career breaks (such as time out to care for dependants)

Please upload all documents **as PDF files** with your name and the document type in the filename. *(Customise this statement to confirm the document(s) you would like the applicant to attach, but make sure that you keep the reference to PDF.*

All applications must be received by **midday** UK time on the closing date stated in the online advertisement.

Information for priority candidates

A priority candidate is a University employee who is seeking redeployment because they have been advised that they are at risk of redundancy, or on grounds of ill-health/disability. Priority candidates are issued with a redeployment letter by their employing department(s).

If you are a priority candidate, please ensure that you attach your redeployment letter to your application (or email it to the contact address on the advert if the application form used for the vacancy does not allow attachments).

If you need help

Application FAQs, including technical troubleshooting advice is available at: <https://staff.web.ox.ac.uk/recruitment-support-faqs>

Non-technical questions about this job should be addressed to the recruiting department directly recruit@ouce.ox.ac.uk.

To return to the online application at any stage, please go to: www.recruit.ox.ac.uk.

Please note that you will receive an automated email from our online recruitment portal to confirm receipt of your application. **Please check your spam/junk mail** if you do not receive this email.

Important information for candidates

Data Privacy

Please note that any personal data submitted to the University as part of the job application process will be processed in accordance with the GDPR and related UK data protection legislation. For further information, please see the University's Privacy Notice for Job Applicants at: <https://compliance.admin.ox.ac.uk/job-applicant-privacy-policy>. The University's Policy on Data Protection is available at: <https://compliance.admin.ox.ac.uk/data-protection-policy>.

The University's policy on retirement

The University operates an Employer Justified Retirement Age (EJRA) for very senior research posts at **grade RSIV/D35 and clinical equivalents E62 and E82**, which with effect from 1 October 2023 will be 30 September before the 70th birthday. The justification for this is explained at: <https://hr.admin.ox.ac.uk/the-ejra>.

For **existing** employees on these grades, any employment beyond the retirement age is subject to approval through the procedures: <https://hr.admin.ox.ac.uk/the-ejra>.

There is no normal or fixed age at which staff in posts at other grades have to retire. Staff at these grades may elect to retire in accordance with the rules of the applicable pension scheme, as may be amended from time to time.

Equality of opportunity

Entry into employment with the University and progression within employment will be determined only by personal merit and the application of criteria which are related to the duties of each particular post and the relevant salary structure. In all cases, ability to perform the job will be the primary consideration. No applicant or member of staff shall be discriminated against because of age, disability, gender reassignment, marriage or civil partnership, pregnancy or maternity, race, religion or belief, sex, or sexual orientation.

Benefits of working at the University

Employee benefits

University employees enjoy 38 days' paid holiday, generous pension schemes, travel discounts, and a variety of professional development opportunities. Our range of other employee benefits and discounts also includes free entry to the Botanic Gardens and University colleges, and discounts at University museums. See <https://hr.admin.ox.ac.uk/staff-benefits>

University Club and sports facilities

Membership of the University Club is free for all University staff. The University Club offers social, sporting, and hospitality facilities. Staff can also use the University Sports Centre on Iffley Road at discounted rates, including a fitness centre, powerlifting room, and swimming pool. See www.club.ox.ac.uk and <https://www.sport.ox.ac.uk/>.

Information for staff new to Oxford

If you are relocating to Oxfordshire from overseas or elsewhere in the UK, the University's Welcome Service website includes practical information about settling in the area, including advice on relocation, accommodation, and local schools. See <https://welcome.ox.ac.uk/>. There is also a visa loan scheme to cover the costs of UK visa applications for staff and their dependants. See <https://staffimmigration.admin.ox.ac.uk/visa-loan-scheme>

Family-friendly benefits

With one of the most generous family leave schemes in the Higher Education sector, and a range of flexible working options, Oxford aims to be a family-friendly employer. We also subscribe to the Work+Family Space, a service that provides practical advice and support for employees who have caring responsibilities. The service offers a free telephone advice line, and the ability to book emergency back-up care for children, adult dependants and elderly relatives. See <https://hr.admin.ox.ac.uk/my-family-care>

The University has excellent childcare services, including five University nurseries as well as University-supported places at many other private nurseries.

For full details, including how to apply and the costs, see <https://childcare.admin.ox.ac.uk/>

Disabled staff

We are committed to supporting members of staff with disabilities or long-term health conditions. For further details, including information about how to make contact, in confidence, with the University's Staff Disability Advisor, see <https://edu.admin.ox.ac.uk/disability-support>

Staff networks

The University has a number of staff networks including the Oxford Research Staff Society, BME staff network, LGBT+ staff network and a disabled staff network. You can find more information at <https://edu.admin.ox.ac.uk/networks>

The University of Oxford Newcomers' Club

The University of Oxford Newcomers' Club is an organisation run by volunteers that aims to assist the partners of new staff settle into Oxford, and provides them with an opportunity to meet people and make connections in the local area. See www.newcomers.ox.ac.uk.