



**UNIVERSITY OF LINCOLN
JOB DESCRIPTION**

JOB TITLE	Post-Doctoral Research Associate in Catchment Hydrology and Geomorphology				
DEPARTMENT	School of Life and Environmental Sciences (Department of Geography)				
LOCATION	Lincoln Campuses				
JOB NUMBER	CHS167	GRADE	7	DATE	November 2024
REPORTS TO	Programme Leader				

CONTEXT

The University of Lincoln, Department of Geography, is looking for a highly motivated Post-Doctoral Research Associate (PDRA) to join the Catchments and Coasts Research Group and contribute to the delivery of the GCBC-funded project *Sustainable Riverscape Management for Resilient Riverine Communities*. The project runs from November 2024 to April 2027 and is a collaboration with Institutions and Non-Governmental Organizations in Colombia and Dominican Republic. The project aims at developing evidence-based floodplain management practices that increase the eco-geomorphological diversity of rivers while improving the sustainable use of the resources to improve the livelihood of local communities. The project couples dialogue with local/Indigenous communities and stakeholders, advanced modelling tools, and field data collection.

The post is to support the University of Lincoln team to lead on characterizing and modelling the two study basins in Colombia and Dominican Republic. This work will involve characterizing land use and land use change, hydrological modelling under scenarios of climate change, hydro-morphological assessment of river networks, and quantification of ecosystem services. There will be a need to collaborate with partners dealing with intense field fluvial surveys, and also with partners studying the perception of the fluvial environment/values of local riverine communities and stakeholders. In doing so, there will be a need to intensely collaborate with researchers and stakeholders from different disciplines, including ecology, geography and social sciences.

The successful candidate will hold a PhD degree in Physical Geography, Environmental Science, or a related discipline, and have a track record of research in hydrology and/or fluvial geomorphology. Experience with numerical modelling, Geographical Information Systems and working across spatial scales will be highly desired. Ability to communicate in Spanish will be positively evaluated.

JOB PURPOSE

The post is to support the University of Lincoln team to lead on characterizing and modelling the two study basins in Colombia and Dominican Republic. This work will involve characterizing land use and land use change, hydrological modelling under scenarios of climate change, hydro-morphological assessment of river networks, and quantification of ecosystem services. There will be a need to collaborate with partners dealing with intense field fluvial surveys, and also with partners studying the perception of the fluvial environment/values of local riverine communities and stakeholders. In doing so, there will be a need to intensely collaborate with researchers and stakeholders from different disciplines, including ecology, geography and social sciences.

The Post Doctoral Research Associate is responsible for conducting research on the project, as directed by the Principal Investigator, and is expected to operate with a significant degree of autonomy. They are not expected to operate as an independent researcher.

The post holder may be required to help supervise the work of more junior researchers, incl. PhD students from Lincoln and other project partners and coordinate their research with national and international collaboration partners.

The Post Doctoral Research Associate will contribute towards writing the project reports, publishing the project results in international peer-reviewed journals, and present their work at project-internal meetings, workshops and international conferences.

The project will involve two visits to the study sites in Colombia and Dominican Republic.

KEY RESPONSIBILITIES

Literature Surveys

Undertake literature surveys and other investigations of the state-of-the-art, and prepare reports as required.

Programme of Research

Undertake a programme of research under the direction of the Principal Investigator, demonstrating a significant level of autonomy.

Lead in the production of high quality research outputs, including reports, papers and other publications of national/international standing.

Project Management

Perform project management activities, planning, scheduling, monitoring and reporting on progress of research projects.

Liaison and Networking

Identify and liaise with internal and external collaborators, and with colleagues in the Department, maintaining positive and effective working relationships.

Internal Research Activities

Participate in and help to organise internal research activities, including seminars, research meetings and conferences.

Continuous Professional Development

Undertake continuous professional development activities.

Grant Applications

Contribute to the production of grant applications.

Teaching Support

There is no teaching support required in this post.

In addition to the above, undertake such duties as may reasonably be requested and that are commensurate with the nature and grade of the post.

ADDITIONAL INFORMATION

Scope and dimensions of the role

This is primarily a research-focussed role, with clear objectives in terms of project deliveries. It is a full-time post, fixed-term. The successful candidate will start on 1st February 2025, or as soon as possible thereafter.

Key working relationships/networks

Internal	External
<ul style="list-style-type: none">• Principal Investigator• Head of Research Centre• Head of School• Other research and academic staff within the school• Research Projects Manager• College Research Support Office	<ul style="list-style-type: none">• Research collaborators• Sponsors and clients• Funding body• Travel booking agencies



**UNIVERSITY OF LINCOLN
PERSON SPECIFICATION**

JOB TITLE	Post Doctoral Research Associate in Modelling coastal Nature-based Solutions	JOB NUMBER	CHS167
Selection Criteria	Essential (E) or Desirable (D)	Where Evidenced Application (A) Interview (I) Presentation (P) References (R)	
Qualifications:			
PhD or equivalent in Physical Geography, Environmental Science, or a related discipline (good candidates may be accepted with a PhD pending, subject to publication record)	E	A	
Extensive knowledge on catchment hydrology and fluvial geomorphology modelling	E	A/I	
Experience:			
Extensive experience in hydrology/geomorphology numerical modelling	E	A/I	
Authorship of research outputs of national/international standing	E	A/I	
Experience of research in fluvial and catchment processes	E	A/I	
Teaching support	D	A/I	
Experience in working across different spatial scales	D	A/I	
Experience working with Geographic Information System	D	A/I	
Skills and Knowledge:			
Ability to design, conduct and project manage original research in the subject area	E	A/I	
Excellent written communication, including the ability to write reports and research outputs	E	A/I	
Ability to prioritise own workload and work to specified deadlines under pressure	E	A/I	
Ability to communicate complex subjects orally	E	A/I	
Modelling in the fields of hydrology/geomorphology	E	A/I	
Fluent in at least one common programming language	E	A/I	
Ability to communicate in Spanish	D	A/I	
Competencies and Personal Attributes:			
Flexible approach to workload	E	I	
Ability to work independently and as part of a team	E	I	
Enthusiasm and commitment	E	I	
Willingness and ability to work across disciplines and lead small teams of researchers	E	I	
Willingness to travel internationally for project meetings in Colombia and Dominican Republic	E	I	

Essential Requirements are those, without which, a candidate would not be able to do the job. **Desirable Requirements** are those which would be useful for the post holder to possess and will be considered when more than one applicant meets the essential requirements.

Author	LM	PBP	AH
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