



<b>Job title</b>	Research Associate/Fellow	<b>Job family and level</b>	Research and Teaching Level 4 (Appointment will be Level 4 Career training grade where an appointment is made before PhD has been completed)
<b>School/ Department</b>	School of Biosciences/ Agricultural and Environmental Sciences	<b>Location</b>	Sutton Bonington Campus

## Purpose of role

To be responsible for leading research into identifying critical drivers of methane dynamics in Central African and South American tropical peatlands. The role holder will undertake a combination of field and laboratory measurements of methane dynamics in the Peruvian Amazon, integrated with characterisation of tropical peat chemistry, and ecological dynamics to identify the contribution of each to driving regional scale methane dynamics. Furthermore, they will maintain and develop strong collaborative links with all project partners, including the University of Aberdeen, Cranfield University, and IIAP (Instituto de Investigaciones de la Amazonía Peruana, amongst others).

	<b>Main responsibilities</b> (Primary accountabilities and responsibilities expected to fulfil the role)	<b>% time per year</b>
1	<b>Data collection and analysis</b> <ul style="list-style-type: none"> <li>▪ Fieldwork in the Pastaza Marañón Foreland Basin, Peru, measuring ecological dynamics and methane production</li> <li>▪ Peat chemical analysis and interpretation of data</li> <li>▪ Analysis of methane flux and ecological data</li> </ul>	60%
2	<b>Communication</b> <ul style="list-style-type: none"> <li>▪ Report (as required) with the PI and colleagues in the project team (Prof Jo Smith (University of Aberdeen) Prof Ron Corstanje (Cranfield University)), and project partners across the wider project group.</li> <li>▪ Lead in drafting papers and delivering conference and seminar presentations.</li> <li>▪ Draft press releases.</li> </ul>	30%
3	<b>Personal and Institutional Development</b> <ul style="list-style-type: none"> <li>▪ Develop personal training needs document and engage with appropriate training activities</li> <li>▪ General assistance with the running of the lab and assistance with the supervision of post graduate students and undergraduate students allied to experience</li> </ul>	10%

## Person specification

	<b>Essential</b>	<b>Desirable</b>
<b>Skills</b>	<ul style="list-style-type: none"> <li>▪ Measurement and analysis of greenhouse gas samples</li> <li>▪ Laboratory techniques for the analysis of soil/peat chemistry</li> </ul>	<ul style="list-style-type: none"> <li>▪ Knowledge of organic matter characterisation techniques (e.g. FTIR or similar)</li> <li>▪ The ability to analyse large datasets.</li> </ul>
<b>Knowledge and experience</b>	<ul style="list-style-type: none"> <li>▪ Methane and greenhouse gas measurement techniques</li> <li>▪ Design and delivery of fieldwork campaigns</li> <li>▪ Knowledge of peatland ecological and environmental processes</li> </ul>	<ul style="list-style-type: none"> <li>▪ Conducting fieldwork in remote environments</li> <li>▪ Experience in tropical and/or peatland environments in South America or elsewhere.</li> <li>▪ First aid</li> <li>▪ Risk assessment</li> <li>▪ The ability to write papers/give conference talks.</li> </ul>
<b>Qualifications, certification and training (relevant to role)</b>	<ul style="list-style-type: none"> <li>▪ Undergraduate degree in a relevant discipline</li> <li>▪ PhD (completed or near-completed) in a relevant discipline (eg terrestrial environmental/agricultural science or biological/physics sciences area)</li> </ul>	<ul style="list-style-type: none"> <li>▪ First aid certification</li> </ul>



The University of Nottingham is focused on embedding equality, diversity and inclusion in all that we do. As part of this, we welcome a diverse population to join our work force and therefore encourage applicants from all communities, particularly those with protected characteristics under the Equality Act 2010.

## Expectations and behaviours

The University has developed a clear set of core expectations and behaviours that our people should be demonstrating in their work, and as ambassadors of the University's strategy, vision and values. The following are essential to the role:

- Valuing people** Is friendly, engaging and receptive, putting others at ease. Actively listens to others and goes out of way to ensure people feel valued, developed and supported.
- Taking ownership** Is clear on what needs to be done encouraging others to take ownership. Takes action when required, being mindful of important aspects such as Health & Safety, Equality, Diversity & Inclusion, and other considerations.
- Forward thinking** Drives the development, sharing and implementation of new ideas and improvements to support strategic objectives. Engages others in the improvement process.
- Professional pride** Is professional in approach and style, setting an example to others; strives to demonstrate excellence through development of self, others and effective working practices.
- Always inclusive** Builds effective working relationships, recognising and including the contribution of others; promotes inclusion and inclusive practices within own work area.

## Key relationships with others



