

JOB DESCRIPTION
Research Associate (Critical Zone Science)
Vacancy Ref: A1439

Job Title:	Research Associate (Critical Zone Science)	Present Grade: 6
Department/College:	Lancaster Environment Centre	
Directly responsible to:	Professor Andrew Binley	
Supervisory responsibility for:	None	
Other contacts		
Internal: Technical and research staff, PhD students.		
External: Lianhai Wu (Rothamsted Research) and other colleagues associated to project.		
Major Duties (90%)		
To provide research support for developing an improved understanding of soil water movement and nutrient transport processes at project field sites, and assist in field experimental data collection. Specifically:		
<ul style="list-style-type: none">- Development of conceptual and numerical models of soil water movement and nutrient transport in the deep unsaturated zone of the Chinese Loess Plateau.- Application and scenario testing of unsaturated zone models.- Application of field-based geophysical methods and analysis of resulting data.- Statistical analysis of experimental data and modelling results.- Co-ordination of regular field campaigns, liaison with project partners (UK and China).- Training of other researchers in project-specific techniques.- Documentation of protocols and results, presentation at steering group meetings and other ad-hoc project meetings.- Assistance (or lead) in preparation of publications and other research outputs.		
Other Duties (10%)		
To undertake any other duties appropriate to the grade of the post as and when required by the supervisor.		