

JOB DESCRIPTION

Vacancy reference:	SRF35268
Post Title:	Data Analyst
Grade:	Grade 6
School/Department:	Geography and Environmental Sciences
Reports to:	Professor Sandy P. Harrison
Responsible for:	n/a

Purpose

Reading University has been awarded \$10.9 million in funding for LEMONTREE (**Land Ecosystem Models based On New Theory, obseRvations and ExperimEnts**), a project to develop a next-generation model of the terrestrial biosphere and its interactions with the carbon cycle, water cycle and climate. **LEMONTREE** is an international consortium with participants from Reading, Imperial College London, Columbia University, the University of Pittsburgh, UC Berkeley, Utrecht University, Seoul National University, Texas Tech University, Tsinghua University and the Swiss Federal Institute of Technology in Zurich. The project will run for 5 years, starting from January 2021.

The Data Analyst will support LEMONTREE's research activities through undertaking analyses of large data sets, including field, experimental and remote sensing data, as directed by the Project Director at Reading and the Science Strategy lead at Imperial. The Data Analyst will also be required to liaise with and provide support to Principal Investigators and staff at each of the participating Institutes.

Main duties and responsibilities

The core objectives of the Data Analyst role are:

1. To assist in obtaining and processing data from external sources, including quality control, and provision of mapped and aggregated outputs from the raw data.
2. To implement specific analyses defined by the Project Director and the Science Strategy Lead.
3. To assist in the evaluation of model experiments using data obtained from external sources or from the project.
4. To ensure access for project members to analytical results, including code and data sets.
5. To attend relevant meetings of the Lemontree project and to report on analyses undertaken at these meetings.
6. To organise personal workload to ensure timely delivery of products to members of the project.
7. To provide research support in preparing publications and lectures arising from the project.

Supervision received

Professor Sandy P. Harrison (detailed scientific supervision, mentoring and professional development)

Supervision given

The Data Analyst will not be responsible for direct supervision of staff, but will liaise with the Principle Investigators at each Institute and, in consultation with the Project Director and the Science Strategy Lead, will be responsible for undertaking work with members of the project team.

Contacts

Project Director (Sandy Harrison, Reading University)

Science Strategy Lead (Colin Prentice, Imperial College London)

Project Manager (Rhona Phipps, Reading University)

Principle Investigators at Columbia University, the University of Pittsburgh, UC Berkeley, Utrecht University, Seoul National University, Texas Tech University, Tsinghua University and the Swiss Federal Institute of Technology in Zurich.

Terms and conditions

Percentage of time spent on the project: 100%.

This post will be based at Reading. The postholder will be required to work with the other international participants, which may necessitate working unsociable hours.

This position is offered as an initial fixed term contract to 31/12/2021. It is planned that, subject to continued receipt of funding, the contract will be renewed on an annual basis until the end of the 5 year term of the LEMONTREE project.

This document outlines the duties required for the post to indicate the level of responsibility. It is not a comprehensive or exhaustive list and the line manager may vary duties from time to time, which do not change the general character of the job or the level of responsibility entailed.

PERSON SPECIFICATION

Job Title	School/Department
Data Analyst	SAGES/Geography and Environmental Science

Criteria	Essential	Desirable
Skills Required	<ul style="list-style-type: none"> • High-level of programming skills (r, Fortran, Python) • Analytical skills, including experience with multivariate analysis, time-series, and geospatial statistics • Experience with handling large data sets, including quality control • Creative approach to problem-solving • Ability to write clearly and succinctly • Ability to communicate research and articulate complex information in a variety of formats • Good inter-personal skills with an ability to work co-operatively in a multidisciplinary setting at all levels across the university and external organisations • Ability to organise own work with minimal supervision and prioritise work in response to deadlines 	<ul style="list-style-type: none"> •
Attainment	<ul style="list-style-type: none"> • A Masters or PhD in environmental science, ecology, or another scientific discipline related to the aims of the project 	
Knowledge	<ul style="list-style-type: none"> • Programming • Statistics • Ecology 	
Relevant Experience	<ul style="list-style-type: none"> • Hands-on experience with analysis of large data sets • Ability to analyse data and generate high quality figures and tables using appropriate software • Experience in working in a multidisciplinary context 	<ul style="list-style-type: none"> • A proven track record of publishing research • Experience of presenting and communicating at conferences

Disposition	<ul style="list-style-type: none"> • Team working • Flexibility • Organised and self-motivated 	
Other	<ul style="list-style-type: none"> • Must be willing to take initiative in problem solving for other members of the research project • Must be able to implement data management and quality control procedures 	

Completed by: Sandy P. Harrison	Date: 26 February 2021
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