

JOB DESCRIPTION

Vacancy reference:	SRF34034
Post Title:	Postdoctoral Research Assistant in Palaeoclimate Model Evaluation
Grade:	Grade 6, Spine Point 27
School/Department:	Geography and Environmental Sciences
Reports to:	Professor Sandy P. Harrison
Responsible for:	n/a

Purpose

To provide research support for analysis and evaluation of palaeoclimate simulations in the context of the ERC project "Global Change 2.0: Unlocking the past for a clearer future".

Main duties and responsibilities

- Assistance in obtaining and processing palaeoclimate model simulations from the CMIP6 archive, including quality control, and provision of mapped and aggregated outputs from the raw data;
- Processing of palaeoclimate reconstructions, including obtaining new reconstructions for key regions;
- Assistance in performing data-model comparisons, including use of appropriate statistics and metrics;
- Application of forward models using palaeoclimate model outputs to facilitate data-model comparisons;
- Organisation of personal workload to ensure timely delivery of products to the project;
- Provision of 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 Not applicable

Contact Not applicable

Terms and conditions

Percentage of time spent on the project: 100%. 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
Research Assistant in Palaeoclimate Model Evaluation	SAGES/Geography and Environmental Science

Criteria	Essential	Desirable
Skills Required	<ul style="list-style-type: none"> • High-level of programming skills (R, Fortran, Python) • Familiarity with standard statistical techniques • Good communication skills • Good organisational skills, including the ability to work to tight timetables 	<ul style="list-style-type: none"> • Skills in mapping and the design of figures
Attainment	<ul style="list-style-type: none"> • Academic qualifications to PhD standard 	<ul style="list-style-type: none"> • Previous research / professional experience • background in geography, meteorology, environmental science or a related subject
Knowledge	<ul style="list-style-type: none"> • Climate modelling • Programming • Statistics • Quantitative analytical methods 	<ul style="list-style-type: none"> • Palaeoclimatology
Relevant Experience	<ul style="list-style-type: none"> • Hands on experience with analysis of climate model outputs • Hands-on experience with quantitative data analysis • Hands-on experience working with palaeodata • Ability to analyse data and generate high quality figures and tables using appropriate software 	<ul style="list-style-type: none"> • Experience with handling large data sets • A proven track record of publishing research

Disposition	<ul style="list-style-type: none"> • Ability to work as part of a team • Flexibility • Organised and self-motivated 	
Other	<ul style="list-style-type: none"> • Must be willing to take initiative in problem solving 	

Completed by: Sandy P. Harrison	Date: 15 October 2020
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