

JOB DESCRIPTION

Vacancy reference:	SRF32726
Post Title:	Post-doctoral research assistant
Grade:	Grade 6
School/Department:	Department of Meteorology
Reports to:	David Ferreira
Responsible for:	N/A

Purpose

PDRA to conduct research in the framework of the H2020 SO-CHIC project (<http://www.sochic-h2020.eu/>). The position focuses on the impact of Weddell sea polynya on global weather and climate in the atmosphere and ocean.

Main duties and responsibilities

- Set up and analyze high-resolution atmosphere-only simulations to determine the atmospheric response to the polynya
- Analyse high-resolution coupled simulations from the PRIMAVERA project, as well as simulations from the CMIP6 suite
- Lead communication of the results to the scientific community (through writing peer-review articles and giving presentations at national & international conferences)
- Contribute in the communication with the general public (through e.g. social media, blog on the SO-CHIC website, etc)
- Collaborate with SO-CHIC project partners in the development of research, notably with Dr Wonson Park and a post-doctoral research assistant in GEOMAR (Helmholtz Centre for Ocean Research Kiel)
- The successful applicant will be responsible for the routine communications with the GEOMAR team to ensure efficient coordination of efforts between the two teams.

Supervision received

Supervision by David Ferreira.

Supervision given

Depending on the interest of the successful candidate, there is the possibility to assist in the supervision of BSc and MSc research projects spun arising from the SO-CHIC project.

Contact

David Ferreira, University of Reading.

Terms and conditions

This is a full time fixed term (3-year contract) post.

This document outlines the duties required for the time being of 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.

Date assessed: 20/05/2020

PERSON SPECIFICATION

Job Title	School/Department
Post-doctoral research assistant	Meteorology

Criteria	Essential	Desirable
Skills Required	<ul style="list-style-type: none"> • Experience with atmospheric modelling and high-performance computing • Extensive experience with visualization/analysis programming language (e.g. Matlab, Python, etc) 	<ul style="list-style-type: none"> • Experience with high-resolution modelling • handling of large-datasets
Attainment	<ul style="list-style-type: none"> • A PhD, or soon to be completed, in oceanic/atmospheric science, climate science, geophysical fluid dynamics or a related field 	
Knowledge	<ul style="list-style-type: none"> • A strong background in atmospheric dynamics • Knowledge of statistical analysis methods 	<ul style="list-style-type: none"> • Knowledge of physical oceanography, and large-scale ocean circulation
Relevant Experience		<ul style="list-style-type: none"> • Experience with the UM atmospheric model
Disposition	<ul style="list-style-type: none"> • Good writing and communication skills • Ability to carry out independent research work 	<ul style="list-style-type: none"> • Experience with peer-reviewed papers, oral/poster presentations at major conferences

Completed by: David Ferreira	Date: 20/05/2020
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