

JOB DESCRIPTION

Vacancy reference:	SRF41289
Post Title:	Climate Services Development Technical Manager
Grade:	6
School/Department:	SMPCS/ Meteorology (NCEO)
Reports to:	Professor Chris Merchant
Responsible for:	N/A

Purpose

This role is to provide technical support to the Climate Services Development Manager (Space4Climate), the Space4Climate Board and wider membership. Support the Group in delivering, sustaining, and making use of trusted climate intelligence from space and are hosted by the National Centre for Earth Observation in the Meteorology Department at the University of Reading.

Support the Group in being able to offer end-to-end capability along the supply chain—from design, manufacture and satellite mission development to data analytics and integration of climate information into immediately actionable decision support services.

Main duties and responsibilities

- Support the Space4Climate Task Groups to identify and extract opportunities to deliver, sustain and make use of trusted climate intelligence from space and to remove barriers to enable the seamless supply chain of climate data from space assets to the users.
- Provide technical support to the Climate Services Development Manager (Space4Climate), the Space4Climate Board and wider membership and stakeholders.
- Facilitate member input coordination and identify and problem solve issues relating to any barriers in learning for a seamless supply chain regarding the task groups.
- Project manage the delivery and maintenance of the group's climate services directory
- Author technical internal and public documents on behalf of the group including presenting consultation responses where required and appropriate.
- Produce briefings for the Space4Climate Board and members and draft policy briefings and media of our community's world leading space enabled climate science and services in a clear way so it is easily understood by a range of stakeholders and users.
- Deliver conference presentations to industry and public audiences
- Deputise for Climate Services Development Manager as required

Supervision received

The post-holder will report to the Climate Services Development Manager. The post-holder will work closely with the Climate Services Development Manager on a day-to-day basis and will be expected to manage their own time and set priorities to meet the requirements and objectives for the post.

Supervision given

Day-today assistance and supervision given by the Climate Services Development Manager who is responsible for day-to-day management and direction of the Space4Climate Group.

Contact

Space4Climate is a stakeholder led and funded community, Chaired by the UK Space Agency and which represents the UK's world-leading Earth Observation expertise and global collaborations regarding climate data. Space4Climate members span UK-based industry (from SMEs to multi-nationals), third sector, academia and Government including: BEIS, DIT, Defra, UKRI and ESA Climate Office.

The post-holder will need to liaise with internal and external members of the Space4Climate group including but not limited to Meteorology Department, the Walker Institute and externally NCEO, UKSA, NPL, Defra, BEIS, DIT, Telespazio UK, CGI, Sat Apps Catapult, Airbus Defence and Space, GPSDD, UKRI-NERC, other Earth Observation researchers based in the UK, other S4C members not listed here and external stakeholders such as GEO and ESA.

Terms and conditions

This is a full-time position, fixed term until 30 September 2023 with potential for this to be extended as further funding is obtained.

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: June 2022

PERSON SPECIFICATION

Job Title	School/Department
Climate Services Development Technical Manager	SMPCS/ Meteorology (NCEO)

Criteria	Essential	Desirable
Skills Required	<ul style="list-style-type: none"> • Excellent computing and data management skills - able to undertake Earth Observation analysis and be able to use advanced computing techniques e.g Machine Learning, Artificial Intelligence, Big Data analysis and geographic information systems • Creative problem solving skills • Ability to communicate effectively both verbally and in writing with project participants and stakeholders across all levels from Directors to early career researchers and present information clearly • Ability to produce high-quality, user-friendly outputs to agreed deadlines • Ability to use initiative to organise and prioritise workload effectively and manage the demands of working on several projects /areas of work activity simultaneously • Good interpersonal skills – able to work well with others 	<ul style="list-style-type: none"> • Skills associated with analysis, manipulation and/or visualization of environmental data, including weather, climate and Earth Observation data • Skills in handling highly diverse data (structured and unstructured) in different formats • Skills in handling large data volumes
Attainment	<ul style="list-style-type: none"> • Good honours degree in a relevant discipline (e.g earth observation, meteorology, physical geography, metrology, physics, climate change, geospatial intelligence) 	<ul style="list-style-type: none"> • PhD in a relevant discipline (e.g earth observation, meteorology, physical geography, metrology, physics, climate change, geospatial intelligence)
Knowledge	<ul style="list-style-type: none"> • Earth observation -role and use in essential variable climate data sets 	<ul style="list-style-type: none"> • Advanced knowledge of space sector • Metrology – particularly quality assurance and kite

	<ul style="list-style-type: none"> • Understanding of the climate data supply chain from space, mission to decision support tools • Processing of earth observation data sets into alternative formats to meet user requirements 	<p>marking of data products and services</p> <ul style="list-style-type: none"> • Artificial intelligence and machine learning applications of earth observation
Relevant Experience	<ul style="list-style-type: none"> • Data processing of observational or modelled data sets • Conference presentations to industry and public audiences • Translation of complex science into language accessible for other audiences—i.e., policy briefings, blogs, press releases and public and non-space sector engagement • Coordinating and assimilating technical information from multiple skilled experts and contacts 	<ul style="list-style-type: none"> • Experience of building knowledge brokerage • Experience of project management • Experience of organising research meetings and workshops • Experience with working other disciplines effectively • Running models • Preparation/publication of peer reviewed journal papers
Other	<ul style="list-style-type: none"> • Be able to travel within the UK for work as required 	

Completed by: Professor Chris Merchant	Date: 24/06/2022
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