

## JOB DESCRIPTION

<b>Vacancy reference:</b>	SRF41289-R
<b>Post Title:</b>	Climate Services Development Technical Manager
<b>Grade:</b>	6
<b>School/Department:</b>	SMPCS/ Meteorology (NCEO)
<b>Reports to:</b>	Climate Services Development Manager.
<b>Responsible for:</b>	n/a

### Purpose

This role is support a network of academic, public sector and commercial organisations (Space4Climate) that seek to accelerate the use of data from Earth observation satellites for climate services. The primary focus of the role is technical support, with opportunities for public engagement and knowledge sharing contributions.

Space4Climate is a stakeholder-led and funded community, chaired by the UK Space Agency, representing 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. We work together 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. As a group we 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.

The Climate Services Development Technical Manager will provide technical support to the Space4Climate Services Development Manager, the Space4Climate Board and wider membership. We are looking for a technical expert confident in data analysis, visualisation and software tools, ideally with experience in Earth observation applications of these skills. The role requires familiarity with software development, advanced computing techniques, Machine Learning, Artificial Intelligence, Big Data analysis and Geographic Information Systems. You will support Space4Climate's activities focused on removing the barriers to exploitation of climate data for policy, services and net-zero-carbon transition. Public communication and knowledge brokerage will also be required in connection to climate services you help to kick-start.

### Main duties and responsibilities

- Supporting the Space4Climate Task Groups in identifying and extracting opportunities to the seamless supply chain of climate data from space.
- Provide technical support, member input coordination and extraction of barriers in learning for a seamless supply chain regarding the task groups.
- Project management of delivery of the group's climate services directory
- Translation to plain English of our policy briefings and media of our community's world leading space enabled climate science and services.
- Public speaking
- Willingness to learn and interest in knowledge brokerage

- Deputise where requested for Space4Climate Services Development Manager,

### **Supervision received**

The post-holder will report to the Climate Services Development Manager. The post-holder and the manager will agree objectives and targets as appropriate. The post-holder will work closely with the Space4Climate 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-to-day 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**

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 post 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:**

# PERSON SPECIFICATION

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

Criteria	Essential	Desirable
<b>Skills Required</b>	<ul style="list-style-type: none"> <li>• Excellent computing and data management skills</li> <li>• Good oral presentation skills</li> <li>• Excellent written English</li> </ul>	
<b>Attainment</b>	<ul style="list-style-type: none"> <li>• Master's degree</li> </ul>	<ul style="list-style-type: none"> <li>• PhD in a relevant discipline (earth observation, meteorology, physical geography, metrology, physics, climate change, geospatial intelligence etc)</li> </ul>
<b>Knowledge</b>	<ul style="list-style-type: none"> <li>• Earth observation -role and use in essential variable climate data sets</li> <li>• Understanding of the climate data supply chain from space, mission to decision support tools</li> <li>• Processing of earth observation data sets into alternative formats to meet user requirements</li> </ul>	<ul style="list-style-type: none"> <li>• Advanced knowledge of space sector</li> <li>• Metrology – particularly quality assurance and kite marking of data products and services</li> <li>• Artificial intelligence and machine learning applications of earth observation</li> </ul>
<b>Relevant Experience</b>	<ul style="list-style-type: none"> <li>• Extensive experience of or willingness to build knowledge brokerage</li> <li>• Data processing of observational or modelled data sets</li> <li>• Conference presentations to industry and public audiences</li> <li>• Translation of complex science into language accessible for other audiences–i.e., policy briefings, blogs, press releases and public and non-space sector engagement</li> <li>• Coordinating and assimilating technical information from multiple skilled experts and contacts</li> </ul>	<ul style="list-style-type: none"> <li>• Knowledge brokerage</li> <li>• Experience with managing projects</li> <li>• Experience with organizing research meeting and workshops</li> <li>• Experience with working other disciplines effectively</li> <li>• Running models</li> <li>• Preparation/publication of peer reviewed journal papers</li> </ul>
<b>Disposition</b>	<ul style="list-style-type: none"> <li>• Work well with others and independently</li> </ul>	

	<ul style="list-style-type: none"><li>• Excellent problem solver</li><li>• Ability to communicate and work with project participants and stakeholders—across all levels from directors to early career researchers</li><li>• Work well to deadlines</li></ul>	
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Completed by: Krupa Kumar/ Chris Merchant	Date: 24/08/2022
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