

JOB DESCRIPTION

Vacancy Ref: A2806

Job Title: Senior Resear	ch Associate in Satellite Altimetry	Present Grade: 7
Department/College:	LEC	
Directly responsible to:	Malcolm McMillan	
Supervisory responsibility for: Some supervision of postgraduate students		
Other contacts		
Internal: Academic and teaching staff, post-doctoral researchers and postgraduate students within LEC, CEEDS and DSI;		
university central administration.		
External:		
UK Centre for Polar Observation & Modelling (CPOM) staff, Centre for Ecology and Hydrology (CEH) staff, JASMIN		
computing staff, ESA and ECMWF technical staff.		
Major Duties:		
This position will develop multi-decadal satellite altimeter records of ice sheet change, principally working with the European Space Agency (ESA) and the European Centre for Medium-Range Weather Forecasts (ECMWF) to fulfil the objectives of the <i>Copernicus Climate Change Services (C3S)</i> and <i>Fundamental Data Records for Altimetry (FDR4ALT)</i> projects. Specific duties will include:		
1. To develop and run an operational altimetry processing system for monitoring Antarctic Ice Sheet change, as part of the <i>Copernicus Climate Change Services</i> project, including software design and implementation on the JASMIN national computing infrastructure.		
2. To develop new high-level ice sheet altimetry products for use by the European Space Agency (ESA), as part of the <i>Fundamental Data Records for Altimetry</i> project.		
3. To work with CPOM c	olleagues to develop and implement met	hodological advances in satellite altimetry.
4. To explore measurements from new satellite altimeter missions, including Sentinel-3 and ICESat-2.		
To produce and deliv projects.	ver ice sheet datasets, reports and tech	nical documents for the C3S and FDR4ALT
6. To participate and pre	esent at C3S and FDR4ALT project meetin	gs with ESA, ECMWF and project partners.
7. To work with CPOM researchers, technicians and postgraduate students, nationally, to develop and implement new processing algorithms.		
 To generate and pu appropriate. 	ursue independent research objective	s, including contributing to proposals as
	publication in leading international journ ervise less experienced colleagues and po	nals, participate in national and international ostgraduate students as appropriate.