### JOB DESCRIPTION

**Vacancy Ref:** A3110

<table>
<thead>
<tr>
<th><strong>Job Title:</strong></th>
<th>Senior Research Associate in Satellite Altimetry</th>
<th><strong>Present Grade:</strong></th>
<th>7</th>
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</thead>
<tbody>
<tr>
<td><strong>Department/College:</strong></td>
<td>LEC</td>
<td><strong>Directly responsible to:</strong></td>
<td>Malcolm McMillan</td>
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<tr>
<td><strong>Supervisory responsibility for:</strong></td>
<td>Some supervision of postgraduate students</td>
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#### 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 technical staff.

#### Major Duties:

This position will focus on the development of state-of-the-art Level-2 radar altimetry processing chains for deriving ice sheet elevation measurements. The successful candidate will work as a radar altimeter expert within the UK Centre for Polar Observation & Modelling, and more broadly as part of an international team on several large European Space Agency (ESA) projects. Specific duties will include:

1. To develop and implement new Level-2 dedicated ice sheet altimetry processing algorithms, including software design and implementation within the CPOM system.
2. To develop new high-level ice sheet altimetry products for use by the European Space Agency (ESA), as part of the Cryo-TEMPO project.
3. To undertake scientific analysis of the new datasets, and to publish the results in leading international journals.
4. To work with CPOM colleagues, both in Lancaster and nationally, to develop and implement methodological advances in satellite altimetry.
5. To analyse measurements from new satellite altimeter missions, including Sentinel-3 and ICESat-2.
6. To undertake testing of datasets within the scope of the Cryo-TEMPO project, and to write associated reports and technical documents.
7. To participate and present at Cryo-TEMPO project meetings with ESA and international project partners.
8. To generate and pursue independent research objectives, including contributing to proposals as appropriate.
9. To present at national and international conferences.
10. To supervise less experienced colleagues and postgraduate students as appropriate.