

## JOB DESCRIPTION

Ref: A2700

<b>Job Title</b> Senior Research Associate	<b>Grade:</b> 7
<b>Department/College:</b>	Lancaster Environment Centre
<b>Directly responsible to:</b>	The IAA PI, Professor Peter M. Atkinson and the Project Lead at Ordnance Survey Research and Development
<b>Supervisory responsibility for:</b>	NA
<p><b>Other contacts</b></p> <p><b>Internal:</b> GsDS Group Lead, LEC Associate Directors, GsDS Group academic colleagues, LEC academic colleagues, LEC Enterprise and Business Partnerships team, collaborating research groups, teaching and administrative teams, colleagues &amp; students, colleagues in other depts, particularly the Data Science Institute. Ordnance Survey contacts including in the Business Change &amp; Innovation (BC&amp;I) team.</p> <p><b>External:</b> Colleagues in the Centre for Ecology and Hydrology, Research Councils and other funding bodies, employers, business organizations, international research/HE institutions, professional bodies, local and national government departments and organizations, academic and research networks, potential students and their parents.</p>	
<p><b>Major Duties:</b></p> <ul style="list-style-type: none"> <li>• Contributing to the detailed design of the project which leads to outputs, outcomes and impact</li> <li>• Knowledge transfer to Ordnance Survey through industrial and commercial engagement.</li> <li>• Transferring to Ordnance Survey the object-based deep neural network approach for land use classification using fine spatial resolution remotely sensed imagery (e.g. aerial photos, Sentinel 1 and 2).</li> <li>• Development of repository of code for use by Ordnance Survey staff to apply the object-based deep neural network approach to new unseen data.</li> <li>• Prioritising the requirements of the ultimate user of the software repository to ensure its use well beyond the contracted period.</li> <li>• Generalizing the developed methods to wider geographical areas and integrating the processes into the image processing pipeline within Ordnance Survey</li> <li>• Production of all required reports, and ensuring that all deliverables of the project are met.</li> <li>• Potentially, publication of outputs in high impact remote sensing and related journals</li> <li>• Communication of results to a wide audience</li> <li>• Potentially, presenting results at leading national and international conferences</li> <li>• Administration of the project, according to the strategic aims of Ordnance Survey and LEC</li> <li>• Attending and participating in academic staff meetings at both Ordnance Survey and Lancaster University.</li> <li>• Other duties, appropriate to the skills and experience of the post-holder, as assigned from time to time by the Lead in Ordnance Survey or the PI.</li> </ul>	