### JOB DESCRIPTION
Research Associate – GIS Study of soft rush expansion, Lancaster Environment Centre
Vacancy Ref: A2584

<table>
<thead>
<tr>
<th>Job Title: GIS Research Associate</th>
<th>Present Grade: 6 (1 FTE)</th>
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<tbody>
<tr>
<td>Department/College:</td>
<td>Lancaster Environment Centre (LEC)</td>
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<tr>
<td>Directly responsible to:</td>
<td>Dr Carly Stevens</td>
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<tr>
<td>Supervisory responsibility for:</td>
<td>N/A</td>
</tr>
<tr>
<td>Other contacts</td>
<td></td>
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<tr>
<td>Internal: Other members of the project team including Dr Duncan Whyatt</td>
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<tr>
<td>External: Other members of the project team including Professor Rob Marrs (Liverpool) and The Farmer Network, Natural England, academic and research networks.</td>
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### Major Duties:

**Main** The post-holder is expected to assist with research into the spread of soft rush (*Juncus effuses*) in the UK over the last 20 years by conducting GIS analysis using LIDAR, satellite imagery and aerial photographs.

### CONTENT

#### Research
- Evaluate a range of different remotely sensed products for detecting the spread of soft rush over a 20 year period,
- Analyse results from platforms in space (Landsat, SENTINEL) or air (LiDAR) and from aerial photographs to identify the best approach,
- For case study areas demonstrate how rush cover has changed over different time periods,
- Organise a meeting for farmers to present the results and gather their thoughts on rush control,
- Present findings to a range of audiences
- Write and /or contribute to academic articles,
- Contribute to the writing of new follow-on research proposals that build on the results of this project,
- To make any further contributions to the project as required by the Principal Investigator, commensurate with the grade.

#### Administration
- Liaise with supervisory staff and keep them up to date with project progress.

#### Finances
- Liaise with Dr Stevens to maintain grant codes.