## Job description

**Senior/ Research Associate in Plant Molecular Biology**

**Ref: A3511**

<table>
<thead>
<tr>
<th>Job Title:</th>
<th>Senior/ Research Associate in Plant Molecular Biology</th>
<th>Present Grade:</th>
<th>6/7</th>
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</thead>
<tbody>
<tr>
<td>Department/College:</td>
<td>Lancaster Environment Centre</td>
<td>Directly responsible to:</td>
<td>Prof Elizabete Carmo-Silva</td>
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<td>Supervisory responsibility for:</td>
<td>n/a</td>
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<td><strong>Internal:</strong></td>
<td>Faculty, research staff and students within the Photosynthesis research team and the Lancaster Environment Centre. Admin staff.</td>
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<td><strong>External:</strong></td>
<td>Project partners at University of Cambridge, University of Essex, and other institutions within the CAPITALISE consortium. Other stakeholders as necessary.</td>
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### Major Duties:

- Contribute to / Be responsible for the design of experiments that address the project objectives by testing specific hypotheses.
- Lead the identification of diversity in Rubisco activity and regulation in selected germplasm of barley, tomato and maize.
- Lead the molecular and biochemical characterisation of Rubisco activase properties. Contribute to the design of engineering approaches to adjust the expression of Rubisco activase variants.
- Research and perform appropriate statistical analyses. Develop custom statistical methods and algorithms, as required. Interpret and discuss results.
- Prepare / Lead the conception and preparation of manuscripts for publication of project findings.
- Participate in, and disseminate research at, internal and external meetings, including international conferences.
- Plan and manage own research activities and priorities, as required, to meet project targets. Complete project milestones in an organized and timely fashion.
- Contribute to the preparation of project reports for the funder and stakeholders. Ensure project IP rules are adhered to.
- Liaise with colleagues to resolve practical and theoretical problems concerning methodology, analysis and ethics that arise whilst conducting research.
- Be knowledgeable of standard operating procedures. Contribute to the development of protocols and workflows, as required.
- Follow health and safety guidelines. Contribute to risk assessments, as required.
- Help train students and colleagues by sharing technical, analytical and/or theoretical knowledge.
- Engage in collaborations with colleagues and co-investigators, locally and internationally.
- Any other duties as may be reasonably required by the line manager.