**JOB DESCRIPTION**

**Senior / Research Associate in Photosynthetic Biotechnology, LEC**

**Vacancy Ref: A3364**

<table>
<thead>
<tr>
<th>Job Title: Senior / Research Associate in Photosynthetic Biotechnology</th>
<th>Present Grade: 6 / 7</th>
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<tr>
<td><strong>Department/College:</strong> Lancaster Environment Centre</td>
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<td><strong>Directly responsible to:</strong> Dr Marjorie Lundgren</td>
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<td><strong>Supervisory responsibility for:</strong> Some informal supervision of lab technician and postgraduate students</td>
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<td><strong>Other contacts</strong></td>
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<td><strong>Internal:</strong> 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> John Innes Centre</td>
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**Major Duties:**

- Be responsible for the design, preparation, and completion of experiments that address the project objectives, specific to a comprehensive *Brassica* transformation program, including
  - Primer design
  - DNA/RNA extraction, PCR, qPCR, tissue culture, inoculations
  - Preparing specialist media,
  - Working under aseptic laminar flow hood conditions,
  - Germination and care of transformed plant products under contained growth conditions
- Research and perform appropriate statistical analyses and interpret results
- Conceive and prepare publications as both lead author and co-author
- Present research at internal and external meetings, including national and international conferences.
- Complete project milestones in an organized and timely fashion.
- Ensure any 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.
- As requested, engage in collaboration with national and international co-investigators
- Review the literature, keep up to date with relevant scientific advances, including methodologies/SOPs, e.g. through membership of professional or academic bodies/societies and by attending relevant training courses and meetings.
- Make new connections with researchers from different but related areas, who share a common interest. Engage with colleagues, collaborators and project co-investigators.
- Explore research areas for added value to the project and, where appropriate, seek possible sources of funding for such activities.
- Help train undergraduate and postgraduate students and lab staff in lab techniques, as required.
- Be knowledgeable of standard operating procedures and the use of equipment.
- Follow health and safety guidelines.
- Any other duties as may be reasonably required by the line manager