**JOB DESCRIPTION**
Vacancy Ref: A3551

**Job Title:** Research Associate in Plant Molecular Biology  
**Present Grade:** 6P

**Department/College:**  
Lancaster Environment Centre

**Directly responsible to:**  
Dr Elizabete Carmo-Silva

**Supervisory responsibility for:**  
n/a

**Other contacts**

**Internal:**  
Drs Alejandro Perdomo and Rhiannon Page, research staff and students within the Photosynthesis research team and the Lancaster Environment Centre. Admin staff.

**External:**  
Project partners at University of Essex, John Innes Centre and CIMMYT. Other institutions within IWYP. Stakeholders as necessary (e.g. BBSRC).

**Major Duties:**

- Contribute to the design of experiments that address the project objectives by testing specific hypotheses.
- Characterise gene sequences and expression levels of Rubisco and Rubisco activase in wheat cultivars.
- With training and support, purify recombinantly produced proteins and determine their catalytic and regulatory properties.
- Research and perform appropriate statistical analyses. Develop custom statistical methods and algorithms, as required. Interpret and discuss results.
- Prepare 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 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.
- 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.