**Job Title:** Plant Biochemist Research Associate / Senior Research Associate (IWYP)  
**Department/College:** Lancaster Environment Centre  
**Directly responsible to:** Dr Elizabete Carmo-Silva  
**Supervisory responsibility for:** n/a  

**Major Duties:**

- Contribute to (6) / Be responsible for (7) the design of glasshouse- and field-based experiments that address the project objectives.
- Characterise Rubisco activation speed in shade-sun transitions in a panel of 200+ wheat genotypes. Liaise with project partners in (6) / Lead (7) the identification of genotypes showing variation in speed of photosynthetic induction. Characterise in detail Rubisco regulation and its contribution to crop yields in a sub-set of 20-30 genotypes.
- Contribute to (6) / Be responsible for (7) characterising photosynthetic induction and Rubisco activation in field trials at CIMMYT in Obregon, Mexico.
- Plan and manage own research activities and priorities, as set with line manager (6) / as required to meet project targets (7).
- Contribute to (6) / Manage (7) the research laboratory: identify priorities and set up new procedures, implement technologies, ensure adequate paper work is in place.
- Resolve practical and theoretical problems concerning methodology, analysis and ethics that arise whilst conducting research.
- Present research at internal and external meetings, including international conferences and IWYP annual meetings.
- Lead the conception (7) and preparation (6/7) of publications in high impact journals as lead author.
- Complete project milestones in an organized and timely fashion. Contribute to (6) / Take the lead on (7) writing project reports for the funder and stakeholders. Ensure all intellectual property rules are adhered to.
- Provide advice to (6/7) and co-supervise (7) PhD, Masters and undergraduate students.
- Keep up-to-date with advances in this scientific area, including methodologies/procedures, through: timely literature review, membership of professional or academic bodies/societies, and by attending relevant training courses.
- Make new connections with researchers from different yet related areas, who share a common interest. Engage with colleagues, collaborators and project co-investigators. Identify (6) / Implement (7) collaborations across IWYP projects to reach the overall goals of the programme.
- Identify (6) / Explore (7) key research areas for added value to the project, possible sources of funding for such activities, and contribute to the preparation of (6) / prepare funding applications (7).
- Contribute to outreach activities (~2 days annually) to disseminate the research to the wider public.
- Any other duties as may be reasonable required by the line manager.