



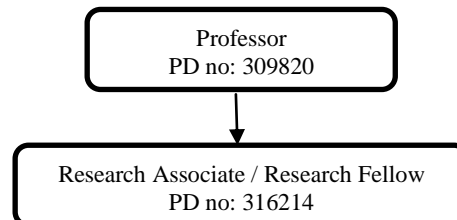
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<b>Position Title:</b>	<b>Research Associate / Research Fellow</b>
<b>Position Classification:</b>	<b>Level A/B</b>
<b>Position Number:</b>	<b>316214</b>
<b>Faculty/Office:</b>	<b>Faculty of Science</b>
<b>School/Division:</b>	<b>School of Molecular Sciences</b>
<b>Centre/Section:</b>	<b>ARC Centre of Excellence in Plant Energy Biology</b>
<b>Supervisor Title:</b>	<b>Professor</b>
<b>Supervisor Position Number:</b>	<b>309820</b>

## Your work area

The Epigenetics and Genomics Laboratory (Lister lab), at the University of Western, is comprised of molecular, cellular and computational biologists, forming a multi-disciplinary group undertaking a diverse range of (epi)genomics research. We utilize genomic, computational, genetic, molecular, and biochemical approaches to investigate the regulation of genomic information in animal and plant systems. The laboratory is also a member of the ARC Centre of Excellence in Plant Energy Biology, a nationally funded research centre headquartered at UWA, and a leading plant molecular research centre and focal point of plant sciences in Australia.

## Reporting structure



## Your role

A post-doctoral position is available to lead the development of artificial transcriptional regulators and programmable genetic circuits in plants. The research will utilize molecular, genomic, and gene editing techniques to generate synthetic genetic circuits that integrate multiple signals to produce customizable transcriptional outputs. Candidates with a background in plant transcriptional regulation, genome editing, or synthetic biology are encouraged to apply.

The successful applicant will collaborate closely with experimental and computational biologists in the group, in addition to contributing to experimental design and project direction.

The successful applicant will be supervised by Professor Ryan Lister and work closely with colleagues working in the Lister lab and at the ARC Centre of Excellence in Plant Energy Biology.

## Key responsibilities

Lead the development of artificial transcriptional regulators and programmable genetic circuits in plants.

Collaborate closely with experimental and computational biologists in the group, including contributing to experimental design and project direction.

Establish reliable and reproducible experimental systems applicable to the research project, and where appropriate aid colleagues in the use of such approaches.

Keep high quality records and follow procedures required by the rules of funding agencies.

Write research articles for publication in leading international journals.

Teach and supervise new researchers and students in the use and development of research approaches relevant to his/her project.

Other duties as directed.

### **Your specific work capabilities (selection criteria)**

PhD in plant molecular biology, biotechnology, genetics or related discipline

Expertise in a diverse range of plant molecular, biochemical and genetics techniques

Experience with plant transformation, synthetic biology techniques, DNA assembly, genome editing systems (CRISPR-Cas9, TALENs), and modelling of transcriptional regulation would be advantageous

### **Special Requirements (selection criteria)**

Willingness to travel

### **Compliance**

#### **Workplace Health and Safety**

All supervising staff are required to undertake effective measures to ensure compliance with the Occupational Safety and Health Act 1984 and related University requirements (including Safety, Health and Wellbeing Objectives and Targets).

All staff must comply with requirements of the Occupational Safety and Health Act and all reasonable directives given in relation to health and safety at work, to ensure compliance with University and Legislative health and safety requirements.

Details of the safety obligations can be accessed at <http://www.safety.uwa.edu.au>

#### **Equity and Diversity**

All staff members are required to comply with the University's Code of Ethics and Code of Conduct and Equity and Diversity principles. Details of the University policies on these can be accessed at [http://www.hr.uwa.edu.au/publications/code\\_of\\_ethics](http://www.hr.uwa.edu.au/publications/code_of_ethics), <http://www.equity.uwa.edu.au>

### **Position Approvals**

*Approvals are now electronic. No signature section needed.*