PhD research opportunities

Seeking the brightest graduates to advance your career in industry supported world-class bioscience research

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The successful candidates will receive:

- A $37,000 p.a. (tax-free) scholarship up to three and a half years
- Training in Australia's first integrated agricultural systems biology research centre, AgriBio
- Professional development programs
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Based at AgriBio, the Centre for AgriBiosciences, Melbourne or Horsham SmartFarm

Successful applicants must meet the Australian University entry requirements for a Doctor of Philosophy degree through our Higher Education partner, La Trobe University.

For enquiries and to apply, please forward a covering letter, your curriculum vitae (please include evidence of research writing) and academic transcripts to:

Kendra Whiteman
Higher Education Manager
Agriculture Victoria Research

kendra.whiteman@agriculture.vic.gov.au

Closing date for applications: until filled.

Molecular curation of the Australian Grains Genebank (AGG)

This project aims to develop novel approaches to curate genebank germplasm collections using genome-wide genotypic data in order to maximise the utility of plant genetic resources (PGRs) warehoused within the AGG for use in research and breeding. This PhD research will investigate opportunities for large-scale genome-wide genotype datasets to identify and develop core diversity sets and establish methods to maximise curation efficiency and the utilisation of PGRs warehoused within the AGG. The research will be based at the Grains Innovation Precinct in Horsham.

Haplotypes for Breeding: Establishing the building blocks of future varieties

This project aims to develop theoretical and software based haplotype analysis approaches that can be applied as the basis for the genomic breeding of crops to meet the challenges of climate change and future food security. This PhD research will develop computational methods that will establish path to impact for the large genomic data being generated in the form of value-based assessments of haplotype. The research will be based at AgriBio, Bundoora,Melbourne.

Artificial Intelligence-Driven Interfaces to Genomics

This project aims to develop Artificial Intelligence (AI)-augmented web applications to enhance user experience and facilitate genomic data interrogation to maximise the utility of plant genetic resources (PGRs) conserved within the Australian Grains Genebank (AGG) for the Australian grains industry.

LA TROBE UNIVERSITY

GRDC GRAINS RESEARCH & DEVELOPMENT CORPORATION

AGRICULTURE VICTORIA