



Australian  
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## Postdoctoral Researcher Position in Fungal Genomics and Evolution



*Puccinia graminis* f. sp. *tritici*  
Photo Credit: Prof. Z. Pretorius

Location: Canberra, Australia

Deadline for applications: 22 March 2020

A three-year post-doctoral position under the direction of Drs. Melania Figueroa, Peter Dodds (CSIRO, Canberra, Australia) and Eric Stone (Australian National University, Canberra, Australia) is available and open for applications.

The appointee will join an international project investigating the biology of the pathogenic stem rust fungus, *Puccinia graminis* f. sp. *tritici*, which inflicts significant yield losses in wheat. The overarching goal of the project is to determine haplotype diversity and genetic variation in virulence genes to enable the

development of molecular diagnostic tools to monitor and predict pathogen evolution. The postdoctoral researcher will participate in discovery of effectors in *Puccinia graminis* f. sp. *tritici* through bioinformatic and functional analyses and will be expected to travel internationally in fulfillment of research responsibilities. The postdoctoral researcher will be located at the CSIRO Black Mountain Laboratories.

### Summary of Selection Criteria

1. A PhD (or awarding of a PhD within six months of appointment commencement) in a field relevant to biological data science (e.g. genomics, bioinformatics, mathematics, statistics, biostatistics, computer science, statistical genetics, etc.) as applied to plant pathology or equivalent qualifications and experience in a related area.
2. A track record of science innovation and creativity, including the ability & willingness to incorporate novel ideas and approaches into scientific investigations as evidenced by publications in peer-reviewed journals and conferences and/or authorship of scientific papers, reports, grant applications or patents.
3. Evidence of experience that includes the application of biological data science methodology to problems in biology and especially genetics of plant fungal pathogens.

For more information and applications visit:

<https://jobs.anu.edu.au/cw/en/job/534919/postdoctoral-fellow>