

### 3-year Postdoctoral Fellowship in Evolutionary Genomics

#### Applied Biosciences, Macquarie University, Sydney, Australia

The Field lab at Macquarie University is recruiting a postdoctoral fellow to join our project on the iconic group of plants known as kangaroo paws (*Anigozanthos*) of Western Australia.



The goal of the 'flower power' project is to unlock the genetic and biochemical potential of flower colour in the iconic group which display remarkable flower colour variation among and within species. The successful candidate will contribute to a broad project using genome assemblies, whole genome re-sequencing and phylogenomic analyses, genetic mapping and transcriptomics of flower colour genes and pathways, and population and evolutionary genomic analyses of flower colour variation in hybrid zones in nature. We will identify independent sources of colour variation across the entire group of kangaroo paw species to understand how this remarkable colour diversity is generated and maintained. This research will be important for improving programs for conservation and develop novel colours for horticulture.

The successful candidate will join a diverse team of people working on kangaroo paws including researchers from Macquarie University, Kings Park and University of Western Australia in Perth. The broader group works on a range of plant systems (e.g. snapdragons, Eucalypts) and research questions related to speciation, adaptation, genetic rescue and conservation of threatened species and plant-pollinator interactions. We utilise an integrated approach using bioinformatics, population and evolutionary genetics, field ecology and glasshouse experiments, molecular biology, biochemistry and mathematical modelling.

Macquarie University is situated in the northern part of Sydney. The city is a diverse and vibrant place to live, a beautiful harbour city with vast entertainment options and outdoor activities on your doorstep. Gold sandy beaches and vast National Parks circle the city (e.g. Blue Mountains, Ku-ring-gai Chase national parks) situated in a global biodiversity hotspot are easily accessible by train.

For more details on selection criteria see the link below.

**Enquiries:** A/Professor David Field at [david.field@mq.edu.au](mailto:david.field@mq.edu.au)

**To Apply:** <https://www.timeshighereducation.com/unijobs/listing/363404/postdoctoral-research-fellow-applied-biosciences/>

**Closing Date:** 25<sup>th</sup> February 2024