



School of Plant Science

PhD Scholarship in eucalypt genomics

Eucalypts are the dominant native forest trees of Australia but cultivated world wide. There is great national and international interest in their genetic characteristics, as such information will provide invaluable insights into their evolution, conservation requirements and industrial breeding potential. The USA Department of Energy together with the Eucalypt Genome Network is currently producing a full genome sequence of a eucalypt which will be released in 2010, making this group the second tree genome to be sequenced. We are actively involved in the International Eucalypt Genome Network and are at the threshold of major advances in our understanding of this genome.

We are seeking a highly motivated PhD student for a University of Tasmania Scholarship (\$26,140 tax-free per year at the 2008 rates) to work on the genetic architecture of species divergence and hybridisation in eucalypts. This project is part of a recently awarded 4-year ARC Discovery grant aimed at using state-of-the-art high-throughput genomic technology in a model system of closely related species of *Eucalyptus* to assess: 1) evolutionary relationships, 2) identify regions of the genome associated with species divergence, 3) extent and nature of the genetic exchange between species in natural forests, and 4) phenotypic and fitness consequences of such gene exchange.

For more information contact:

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