

# CRC FOR FORESTRY SCHOLARSHIPS

IN THE SCHOOL OF PLANT

The CRC for Forestry has five top-up postgraduate scholarships to be based in the School of Plant Science at the University of Tasmania, as at October 2008.

The CRC also offers outstanding supervisory support from research and industry partners, high levels of project funding; support for research, skills and leadership development; and access to terrific networks across Australia and internationally.

Applicants for these CRC for Forestry top-up scholarships will also need to apply for an APA scholarship in the end of year round (applications open in September) or other relevant scholarship offered by the University of Tasmania (**Applications close 31 October**).

## **Genomics of eucalypt wood properties**

PhD top-up scholarship The PhD project will involve developing genomic tools to help choose better candidate genes, conduct association genetics, validate associations, and help integrate molecular and quantitative information into breeding programmes. Please see [www.crcforestry.com.au](http://www.crcforestry.com.au) for details. **Value:** \$6,133 tax-free per year (2008 rates) **Number:** one **Duration:** three years **Criteria:** must have completed Honours and have been awarded and APA or other scholarship to be eligible for the top-up. We seek a highly motivated PhD student interested in working closely with a multi-disciplinary team of researchers integrating molecular, population and quantitative genetics into tree genomics. For more information download the flyer or contact Associate Professor René Vaillancourt (03) 6226 7137 or Dr Dorothy Steane (03) 6226 1828.

## **Genetic diversity in eucalypts**

PhD top-up scholarship This project will examine the level of genetic differentiation between *Eucalyptus obliqua* populations across the species' native range to improve seed transfer guidelines and provide base-line data on genetic diversity to compare managed and unmanaged native forests. Please see [www.crcforestry.com.au](http://www.crcforestry.com.au) for details. Research funds may also be available to back external scholarships to study in other areas of eucalypt genetics. **Value:** \$6,133 tax-free per year (2008 rates) **Number:** one **Duration:** three years **Criteria:** must have completed Honours and have been awarded and APA or other scholarship to be eligible for the top-up. For more information download the flyer or contact Associate Professor René Vaillancourt (03) 6226 7137, Dr Dorothy Steane (03) 6226 1828 or Professor Brad Potts (03) 6226 2641, School of Plant Science.

## Gene flow from eucalypt plantations

PhD top-up scholarship With the rapid expansion of eucalypt plantations in Australia over the last decade, there is an urgent need for strategies to assess and manage the risk of exotic gene flow into native eucalypt populations. Projects are available assessing the risk from either *Eucalyptus nitens* on the island of Tasmania or *E. globulus* plantations across southern Australia. Please see [www.crcforestry.com.au](http://www.crcforestry.com.au) for details. **Value:** \$6,133 tax-free per year (2008 rates) **Number:** one **Duration:** three years **Criteria:** must have completed Honours and have been awarded and APA or other scholarship to be eligible for the top-up. For more information contact Professor Brad Potts (03) 6226 2641, Associate Professor René Vaillancourt (03) 6226 7137 and Dr Robert Barbour (03) 6226 2646, School of Plant Science.

## Overstorey/understorey water relations in eucalypt plantations

PhD top-up scholarship Nationally, water is a critical resource and focus has turned to the significant role forested areas have in supply water. This PhD will interact with scientists in the Water Project of the CRC for Forestry and make a key contribution to exploring the effects of disturbances such as fire and forest management on water security. Please see [www.crcforestry.com.au](http://www.crcforestry.com.au) for details. **Value:** \$6,133 tax-free per year (2008 rates) **Number:** one **Duration:** three years **Criteria:** must have completed Honours and have been awarded and APA or other scholarship to be eligible for the top-up. For more information contact: Dr Tony O'Grady (03) 6226 7963.

## Carbon balance and decay

PhD top-up scholarship This project will study the contribution of coarse woody debris, litter and soil to net ecosystem production and carbon dynamics in three intensively monitored forested catchments in southern Tasmania. Elucidating the carbon dynamics of the southern temperate forests is crucial in understanding their role in carbon cycling. The Warra long-term ecological research site in Tasmania's southern forests is one of very few places where such an attempt is feasible, because of the history of relevant ecological research and hydrological monitoring. Using three intensively monitored pristine forested catchments, this study will explore components of ecosystem production in the context of carbon dynamics. The components to be examined will include coarse woody debris, litter and soil. The findings will be related to forest vegetation in the same catchments (based on structural metrics derived from LiDAR and from ground-based surveys), and to the dynamics of carbon leaving the catchments in monitored streams. Findings from this study will be interpreted in the context of landscape-level ecosystem responses to natural and human disturbance, and will further our understanding of the role of these forests in carbon cycling. Please see [www.crcforestry.com.au](http://www.crcforestry.com.au) for details. **Value:** \$6,133 tax-free per year (2008 rates) **Number:** one **Duration:** three years **Criteria:** must have completed Honours and have been awarded and APA or other scholarship to be eligible for the top-up. For more information about the project, contact Dr Mark Hovenden (03) 6226 7874 or Dr Simon Grove (03) 6233 8141.