

BBSRC Doctoral Training Centre in Food Security

**PhD Studentship at the
Centre for Biological Sciences, University of Southampton
and Rothamsted Research**

Interaction of light and hormones in the regulation of wheat architecture

**Dr Matthew J. Terry (Southampton),
Professor Peter Hedden and Dr Steve Thomas (Rothamsted)**

Manipulation of plant growth and architecture has been a major factor in increasing food productivity. For example, an increase in wheat yield during the Green Revolution was achieved with reduced-height (*rht-1*) mutants with enhanced stability of the DELLA protein RHT-1. How RHT-1 functions in regulating plant height is not known, but it is proposed to interact with a family of light-responsive growth regulators known as phytochrome-interacting factors (PIFs). This studentship will test the hypothesis that RHT-1 interacts with specific PIF proteins in wheat to regulate plant height by utilizing a variety of genetic resources available to the project.

Applicants should hold a minimum of a UK Honours Degree at 2:1 level or equivalent in a relevant subject. This studentship is for UK/EU applicants only.

Studentship will cover Home/EU Fees and pay the Research Council minimum stipend (£13,590 for 2011/12) for up to 4 years. The studentship will begin in October 2013.



To apply for this studentship please submit an application for a **PhD** in Biological Sciences to the University by Friday 22nd February 2013

<http://www.southampton.ac.uk/postgraduate/pgstudy/howdoiapplypg.html>

For further information or preliminary enquiries please contact
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