

**PhD studentship, 'Modelling the interactions of drainage winds with an urban heat island in a stable atmosphere', Centre for Atmospheric & Instrumentation Research at the University of Hertfordshire, UK. Closing date: 16<sup>th</sup> July 2010.**

A PhD studentship is available in the Centre for Atmospheric & Instrumentation Research (CAIR) at the University of Hertfordshire, UK. The focus of the PhD project is on (i) the understanding, characterisation, and modelling of mixing induced by drainage winds in a stable atmosphere, and (ii) their interaction with the heat island of an urban area located down the slopes. This project will provide information to research, design, and develop schemes to parameterise mixing induced by drainage winds in numerical models of all scales. This will make it possible to improve the representation of terrain-induced exchange processes in models and will add tremendous value in assessing their impacts on climate, weather, and atmospheric composition.

The PhD student will work with Dr Charles Chemel, a research scientist with the National Centre for Atmospheric Science (NCAS) based at the University of Hertfordshire. The PhD project proposal will address targeted issues highly relevant to NCAS, by building up on previous and ongoing work. Scientific interactions will be expected and strongly encouraged within CAIR. The PhD work will also benefit from well-established national collaborations (primarily with NCAS) and international collaborations.

The closing date is 16th July 2010 and the expected starting date is 1<sup>st</sup> September 2010.

Applicants are required to have (or be about to receive) a 1st or upper 2nd class honours degree in physics, mathematics, or in an area closely related to physical or environmental science. They are expected to be fluent in English. The limit of tenure is 3 years. The successful applicant will receive a stipend covering maintenance and University fees for EU students for 3 years. Applications from non-EU students are also welcome, but the studentship will only pay for the EU fee rate, the difference with the non-EU rate being taken out of the stipend.

The short-listed applicants will be expected to attend an interview in person at the University of Hertfordshire, Hatfield, UK, during the week beginning 19<sup>th</sup> July 2010. No expenses are being offered to the interviewees.

To apply, please contact Mrs Lorraine Nicholls ([l.nicholls@herts.ac.uk](mailto:l.nicholls@herts.ac.uk)). Applications should include a CV and reference letters from two professional referees. Informal inquiries about the PhD project proposal can be made to Dr Charles Chemel ([c.chemel@herts.ac.uk](mailto:c.chemel@herts.ac.uk)).