

We are seeking a highly motivated Ph.D. student to participate in a research project on the biosphere-atmosphere exchange of greenhouse gases in a subtropical mangrove wetland in Hong Kong.

While mangrove is one of the most carbon-rich forest types in the tropics and one of the world's most productive ecosystems, few studies have quantified CO<sub>2</sub> and CH<sub>4</sub> fluxes simultaneously to determine the overall contribution of mangrove ecosystems to atmospheric radiative forcing and climate change. This research aims to investigate the temporal variability of CO<sub>2</sub> and CH<sub>4</sub> fluxes from a subtropical mangrove over multiple time scales, and examine the influence of environmental parameters on the variations of greenhouse gas exchange at the ecosystem scale using an eddy covariance system.

The successful candidate is expected to assist in the operation and maintenance of the eddy covariance system in collaboration with our full-time technicians, conduct ancillary measurements of environmental parameters in the field, as well as process and analyze the collected data.

Applicants should have a solid background in physical geography, atmospheric sciences, environmental sciences, or other related disciplines. Experience in working on ecosystem trace gas exchange, especially using an eddy covariance system, will be a valuable asset. Applicants should also demonstrate proficiency in written and spoken English.

The successful candidate will receive a monthly studentship of approximately HK\$14,500 (US\$1 = HK\$7.78) for 3 years. Additional funding will also be provided for the successful candidate to attend regional training workshop at the initial stage of Ph.D. study and present papers in international conferences at the later stage. Interested candidates are encouraged to apply for Ph.D. admission through the prestigious Hong Kong PhD Fellowship Scheme which will be due on 1 December 2014. Further details can be found at the following link:

<https://cerg1.ugc.edu.hk/hkpfs/index.html>

Applicants should send a curriculum vitae and covering letter outlining their research experience and interests to Prof. Derrick Lai (dyflai@cuhk.edu.hk) before making a formal application. The Chinese University of Hong Kong is a research-intensive university with English as the main medium of instruction. According to the QS Rankings 2012/13, CUHK is ranked 40th among universities around the world, and the Department of Geography and Resource Management at CUHK is ranked 33rd among the world's top 200 geography programs.