



Fully-supported PhD student(s) at UIUC in Hydrological and Biogeochemistry Modeling for Agroecosystems

Dr. Kaiyu Guan's lab has two openings for full-funded PhD students at the [University of Illinois at Urbana-Champaign](#). Funding up to five years is guaranteed for well-qualified candidates through competitive fellowship, research-assistant, and/or teaching-assistant. **We accept students at any time of a year, not confined to only fall semester.**

Information about the Dr. Guan's lab can be found at: <http://faculty.nres.illinois.edu/~kaiyuguan/>. Dr. Guan is an Assistant Professor in ecohydrology and remote sensing in the [Department of Natural Resources and Environmental Sciences](#). He is also a Blue Water Professor with [the National Center for Supercomputing Applications \(NCSA\)](#), which provides accessibility to all members in Dr. Guan's lab to the [Blue Waters](#), the most powerful supercomputer in US universities that is devoted for scientific research.

This recruitment targets at the following specific directions:

- (1) Modeling hydrological and biogeochemical cycles in advanced earth system models;**
- (2) Data assimilation of satellite data into earth system models;**
- (3) Linking field-measured hyperspectral and fluorescence information with eddy-covariance flux information to model vegetation photosynthesis and fluorescence.**

The admitted students should have flexibility to work on the above topics upon the guidance and supervision of Dr. Guan. **Strong quantitative and programing skills are required for successful candidates.** The project will involve intense data processing/analysis, large-scale model simulation, and possibly field work. Proficiency in spoken/written English is mandatory.

All applicants should meet the minimum requirements of GPA and GRE by the graduate admission (<http://www.grad.illinois.edu/admissions/apply/requirements>). Information for applying to NRES can be found here: <https://nres.illinois.edu/graduate/apply>. International students should also meet the minimum requirements of TOEFL ([the same link above](#)). The enrollment time is relatively flexible, both spring and fall semester of the following years can be considered.

Prospective graduate students are encouraged to contact Dr. Guan (kaiyug@illinois.edu) first to discuss potential research projects and opportunity before [applying](#). When contacting by email, please include the following items: unofficial transcripts, curriculum vitae, GRE score, names and contact information of three references, and a brief personal statement that highlights skills relevant to the position as described above to Dr. Kaiyu Guan. International students should also include recent TOEFL scores. **We greatly appreciate all the interested applications, but advise that only candidates shortlisted for interview will be notified of the application results.**

The University of Illinois at Urbana-Champaign is a world leader in research, teaching and public engagement, distinguished by the breadth of its programs, broad academic excellence, and internationally renowned faculty and alumni. Illinois serves the world by creating knowledge, preparing students for lives of impact, and finding solutions to critical societal needs. The University of Illinois is an Affirmative Action/Equal Opportunity Employer. The administration, faculty, and staff embrace diversity and are committed to attracting qualified candidates who also embrace and value diversity and inclusivity. Visit www.inclusiveillinois.illinois.edu.