

## Multiple graduate and postdoc positions in continental-scaled freshwater ecology

The *Continental Limnology* group is currently recruiting three PhD students and one postdoctoral researcher with an interest in the following types of landscape limnology research questions, e.g.,:

- Understanding continental-scale drivers of lake nutrients and carbon;
- Predicting continental-scale pools of lake nutrients;
- Identifying the role that novelty in ecological context plays in continental-scale predictions

### Description:

We seek candidates for three PhD positions and one postdoctoral research position in continental limnology to be part of a Macrosystems Biology National Science Foundation funded interdisciplinary project-- *A macrosystems ecology framework for continental-scale prediction and understanding of lakes*. The overarching goal of this research is to understand and predict nutrient patterns for all continental US lakes to inform estimates of lake contributions to continental and global cycles of nitrogen, phosphorus, and carbon. Ecosystems, such as lakes, are complex, heterogeneous, and strongly influenced by their ecological context—environmental or anthropogenic factors that operate at multiple scales. This complexity makes extrapolating site-level estimates of ecological services, state, and function challenging. Our project will study a wide range of research questions related to this goal, develop new continental-scale data products for freshwater macrosystems ecology, and contribute novel, data-intensive analytical methods from computer science and statistics.

The successful candidates will be part of the interdisciplinary *Continental Limnology* group that includes ecologists, statisticians, computer scientists, and data scientists from Michigan State University, the University of Wisconsin, the University of Missouri, and The Pennsylvania State University. These positions will be located in the following institutions:

- A postdoc and a PhD student at Michigan State University, advised by Dr. Patricia Soranno, (<http://www.soranno.fw.msu.edu/>) and/or Dr. Kendra Spence Cheruvelil, (<http://www.ksc.fw.msu.edu/>), [DLLimno@gmail.com](mailto:DLLimno@gmail.com)
- A PhD position at the University of Wisconsin, advised by Dr. Emily Stanley, <http://Stanley.limnology.wisc.edu>), [ehstanley@wisc.edu](mailto:ehstanley@wisc.edu)
- A PhD position at The Pennsylvania State University (advised by Dr. Tyler Wagner, <http://ecosystems.psu.edu/directory/txw19>), [txw19@psu.edu](mailto:txw19@psu.edu)

If you are applying for the graduate positions, please send your applications to the faculty member/institution/research focus that you prefer.

### Qualifications:

Postdoctoral research fellow: Competitive candidates should be highly motivated and possess a PhD in Ecology, Limnology, Landscape Ecology or related discipline with strong quantitative emphasis. The ability to work both independently and collaboratively in a team environment is essential.

Graduate assistantships: Competitive candidates should be highly motivated and possess a B.S. or M.S. in Ecology, Limnology, Landscape Ecology or related discipline with strong quantitative emphasis, or a B.S. or M.S. in Statistics or Computer Science with strong ecological emphasis. The ability to work both independently and collaboratively in a team environment is essential.

**Application process:**

Postdoctoral research fellow: Please send a 1-2 page cover letter describing your research interests, CV, and names and contact information for three references to Drs. Patricia Soranno and Kendra Spence Cheruvilil at [DLLimno@gmail.com](mailto:DLLimno@gmail.com).

Graduate assistantships: Please send a 1-2 page cover letter describing your research interests, CV, GRE scores, a recent transcript (unofficial is fine), and names and contact information for three references to the faculty member you are interested in working with (see above).

**Salary:**

Competitive salary, plus excellent benefits

**Closing Date:**

Open until filled; start date is May or August 2017