



Fully Supported PhD Student or Postdoctoral Scholar at the Ohio State University

We have two openings for fully funded PhD student or Postdoctoral Scholar in the School of Earth Sciences at the Ohio State University. Funding is guaranteed for five years for a PhD student position or for two years for a postdoc position. We accept students/postdocs at any time of a year, not only in the fall semester. The expected start date ranges from **January 3, 2023 to August 15, 2023**. The position is open till filled.

Summary: The successful candidate will work with the Ecohydrology Group led by Dr. Yanlan Liu at the Ohio State University (<https://go.osu.edu/ecohydrology>). Liu's group uses process-based models, field and remote sensing data, statistics, and machine learning to address how plant-water interactions affect ecosystem functions and natural resources sustainability. This recruitment targets at the following specific directions:

- Plant ecohydrological responses and feedback to droughts
- Forest monitoring and early warning of tree mortality and wildfire
- Vegetation recovery after fire and drought disturbances
- Vegetation demographic shifts in Arctic-Boreal regions under climate change
- Model-data fusion of satellite observations with Earth system models

Qualifications for a PhD student position: Applicants should have a bachelor's or master's degree in earth science, environmental science, engineering, geophysics, hydrology, ecology, natural science, statistics, computer science, or other related fields. Strong quantitative and programming skills are required. Applicants should meet the minimum requirements of GPA and English proficiency (for international students only) by the graduate admission, which can be found at <http://gpadmissions.osu.edu/grad/know-deadlines-and-requirements.html>.

Qualifications for a Postdoc position: Applicants should have a Ph.D. or expect to receive a Ph.D. by the start date in earth science, environmental science, environmental engineering, geophysics, hydrology, ecology, statistics, computer science, or a closely related field. Strong programming skills (e.g., Python, R, Matlab, C/C++, Fortran, Linux) are required. Research experience in at least one of the following is highly preferred: land surface modeling, dynamic vegetation modeling, hydrological modeling, plant hydraulics, spatial-temporal statistics, and machine learning.

Application Process: Please a single PDF file including CV, transcript, and contact information of three references via email to liu.9367@osu.edu. Qualified applications will be reviewed upon receiving. For further information, please contact Dr. Yanlan Liu via the email above.