

PhD opportunity in Hydrology

Start date: Fall 2027

PI: Lyn Watts (lynwatts@binghamton.edu) clynwatts.github.io

Location: Dept of Earth Sciences, Binghamton University, State University of New York

I am recruiting a PhD student to join my [new hydrology lab](#) in the Earth Sciences department at Binghamton University. This is a funded opportunity, including semester and summer salary, tuition costs covered, to begin fall 2027.

Topics of interest include:

- Wetland hydrology and restoration
- Groundwater-dependent wetlands and rivers
- Flood forecasting and hazard mitigation
- River responses to climate and land use change

If you are interested in pursuing a topic that does not fit one of these categories, but is relevant to the intersection between water, land, and communities, email me to ask if it is a project I can support!

We use a wide variety of methods: We do field work, lab work, remote sensing, and sometimes we play with big datasets. Some of our tools include:

- Stable water isotopes
- Thermal, multispectral, and lidar near surface remote sensing (drones and handheld units)
- Peat cores and soil cores
- Fiber optic Distributed Temperature sensing

What you will bring:

- Curiosity and a strong interest in wetland dynamics and interdisciplinary research
- Experience in a lab and/or field work setting
- Great communication skills, written and verbal

The following experience is nice to have. But don't be dissuaded from reaching out if you don't have any of these. The above qualifications are much more important.

- MS in earth or environmental science
- Experience in GIS and remote sensing
- Experience flying drones and/or processing drone imagery
- Experience in water sampling
- Experience using R or Python

To Apply: Prospective students please email Lyn Watts (lynwatts@binghamton.edu) with a CV and a brief statement about your research interests. The application deadline for the university is **January 15th, 2027**. Final graduate admissions decisions are made through the department's formal admissions process.