

Fully Funded PhD Position in Remote Sensing for Water Resources and Hydro-Hazards

Dr. Grace Carlson is seeking a motivated graduate student to join her research group beginning Fall 2026. Current projects include quantifying the impacts of drought, monitoring groundwater depletion and recharge across diverse aquifers worldwide, and assessing hydrological hazards using advanced Earth observation datasets.

The ideal applicant will have experience or a strong interest in:

- Satellite remote sensing (e.g., GRACE/GRACE-FO, SWOT, InSAR)
- GNSS data analysis
- Signal processing and time series analysis
- Programming (e.g., Python, MATLAB, R, or similar)
- Hydrological or water resource modeling
- Strong written and verbal communication skills
- Interest in applying data-driven methods to study climate-water interactions, anthropogenic impacts, and related environmental challenges.

Applicants from diverse academic backgrounds, including Geography, Earth sciences, engineering, physics, math, and computer science, are encouraged to apply. Prior experience with remote sensing is helpful but not required. You will receive mentorship and training as you grow into the role. Enthusiasm for solving environmental problems is most important!

To apply, please send a CV and a short statement of research interests to gracarls@iu.edu. Graduate applications for the Department of Geography at Indiana University are due December 1st.