

Fully Funded Ph.D. Position in Remote Sensing, Water Resources, and Environmental Hazards

I am recruiting a fully funded Ph.D. student to join my Lab and work on projects that integrate satellite remote sensing, data science, and AI to study water resources and environmental hazards/geohazards. The expected start date is ideally in Spring 2026. The successful candidate will work on projects related to remote sensing of hydrologic and environmental hazards, including (but not limited to):

- Satellite-based monitoring of floods, water bodies, or coastal sea level rise (solid earth), or proglacial environmental hazards.
- Surface (and ground) water hydrology using NASA's Surface Water and Ocean Topography (SWOT) mission datasets
- Data fusion techniques and computational and machine learning tools using radar and commercial satellites, and in situ observations
- Cryosphere and water cycle, and proglacial environment in cold environments

This is an exciting opportunity to work on water resource monitoring, hazard mapping, remote sensing, and geophysical changes using SWOT data, recently launched NISAR data, or Gravity data, as well as GNSS datasets. It offers opportunities to collaborate with diverse faculties, including the Wilkes Center for Climate Science.

Position Details

- Start Date: January 2026 (Spring Semester)
- Duration: 4–5 years, fully funded (tuition, stipend, research support)
- Funding: Full tuition + competitive stipend + benefits
- Location: Salt Lake City, Utah

Required Qualifications

- Master's degree in Geography, Earth Sciences, Environmental Science, Hydrology, Remote Sensing, Civil Engineering, Computer Science, or a related field by the start date
- Strong background in remote sensing, and/or data analysis (Python, MATLAB, R, or other)
- Excellent written and verbal communication skills
- For international applicants: TOEFL ≥ 80 iBT, IELTS ≥ 6.5 , or Duolingo ≥ 105

Application Instructions: If you are interested in applying for this position, please fill out [this form](#) as early as possible (by September 9), and I will follow up with you. If you have any questions, please contact sonam.sherpa@ess.utah.edu. Spring 2026 [full departmental application deadline](#): October 1, 2025.

Contact:

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Assistant Professor

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