

Recruiting a Ph.D. Student in Global Snow Hydrology at Oregon State University



Funding is available to support a graduate student pursuing a Ph.D. with a focus on global snow hydrology and remote sensing in the College of Earth, Ocean, and Atmospheric Sciences (CEOAS) at Oregon State University (OSU) starting in Summer 2022 or Fall 2022. The successful candidate will be funded by a new NASA grant as a Graduate Research Assistant with additional support as a Graduate Teaching Assistant in the Geography Program at OSU. Students can apply to either the degree program in Geography or the Water Resources Science interdisciplinary degree program. The successful applicant will conduct research with Dr. Mark Raleigh's snow hydrology lab and be responsible for (1) assisting in the development and maintenance of a cloud-based data analysis system that produces seasonal snowpack datasets through the integration of models and satellite remote sensing, (2) conducting studies that validate and benchmark the system and assess geographic distributions of snowpack, and (3) quantifying the scientific value of remotely sensed datasets as inputs into snow models. Preferred qualifications include: a background in hydrology, geography, Earth sciences, engineering, atmospheric science, or computer science; proficiency in computer programming with Python or an ability to learn Python; and experience in working with cloud computing and/or large geographic datasets from remote sensing or models. The student is expected to be self-motivated and to work in a collaborative environment with colleagues at OSU, external university partners, and community collaborators in the NASA SnowEx program.

For inquiries, please contact Dr. Mark Raleigh ([raleigma@oregonstate.edu](mailto:raleighma@oregonstate.edu)) stating your interests in the opportunity and a brief summary of your relevant skills and experiences, and include your CV. Applicants from underrepresented groups in the geosciences are encouraged to apply. For more information, please visit Dr. Raleigh's research page (<https://markraleigh.com/>).

The full application deadline is January 5, 2022. For more information about the application process, please see (<https://ceoas.oregonstate.edu/geography-graduate-program-how-apply-details>). Prospective applicants are strongly encouraged to contact Dr. Raleigh prior to applying to OSU.

OSU is a beautiful, historic and state-of-the-art campus located in Corvallis, a college town within the scenic Willamette Valley about 90 minutes south of the Portland metropolitan area. Centrally located, Corvallis has easy access to the Oregon coast, Cascade mountains, rivers, forests, wine country, and more!