Graduate Research Assistant in Applied Hydrometeorology and Water Resource Management

Dr. Andrew Martin's hydrometeorology lab at Portland State University is seeking a graduate research assistant to begin as soon as Fall 2021. Candidates at the Masters or PhD level with interest in the hydroclimate of the US West and applying scientific knowledge to challenges in water management are encouraged to apply.

About PSU / Dr. Martin: Dr. Martin is a research assistant professor in the Department of Geography at Portland State University. Dr. Martin's research is focused on hydrometeorology, clouds, atmospheric rivers, Western US climate and model evaluation. His goals are to help Western US stakeholders and communities better manage water and energy resources in current and future climates by improving predictions and understanding of physical processes, including aerosols, cloud physics and atmospheric dynamics. You can learn more about Dr. Martin's research at http://web.pdx.edu/~anmarti2/index.html

The Department of Geography at Portland State University is multi-disciplinary, focusing on the physical science, social science and geographic analysis techniques related to the pressing challenges of climate change, environmental sustainability, community resilience and justice and equity within these realms. The Earth, Environment and Society PhD program at PSU seeks to equip graduates with the knowledge and practice to become experts in climate science, hydrology, geology, urban sustainability, and forest ecology, among many other fields, with an emphasis on sustainability and resilience applications. The Department of Geography offers a Master's degree in Geography and a PhD as a core departmental member of the Earth, Environment and Society program.

Dr. Martin, the Department of Geography and Portland State University share a commitment to justice, equity, diversity and inclusion in higher education and in the workplace. You can read more about PSUs commitment to JDEI at https://www.pdx.edu/diversity/

About the Research: Most water supply and flood risk on the US West Coast occurs during winter storm events, wherein precipitation falls first in the coastal mountains, followed by the mountain ranges forming the Pacific Crest, and finally in the ranges that drain inland to the Great Basin. How precipitation is partitioned to these zones in current and future climates is a critical question to enable water managers to enhance water supply and environmental benefits without increasing flood risk. The student will work with Dr. Martin to develop a thesis related to the above topic and will develop methods capable of addressing the thesis statement(s). The student will receive full tuition and fees, an annual stipend, and additional benefits. Travel support to collect measurements during winter storms in the field may be available as appropriate to the thesis topic(s).

How to Apply:

1. Contact Dr. Martin directly at anmarti2@pdx.edu. CVs and/or scientific writing samples are encouraged.
2. After discussion with Dr. Martin to identify the appropriate PSU graduate program (e.g. MS or PhD), the candidate will be guided through the formal application process.