

PhD Research Assistantship in Urban Ecohydrology

The Parolari Research Group in the Department of Civil, Construction, and Environmental Engineering at Marquette University invites applications for a funded PhD research assistantship in *ecohydrology of urban systems*. Our research group combines experimental data, theory, and models to study interactions between hydrology and biogeochemistry in urban systems (www.aphydro.com). We are seeking highly motivated individuals with the ability to work across disciplinary and institutional boundaries. The successful candidate will have (1) a bachelors or masters degree in civil and environmental engineering or related field; and (2) experience with computer programming and mathematical modeling. Responsibilities will include a combination of field work, laboratory experiments, data analysis, and computer modeling. Strong consideration will be given to candidates with demonstrated background in programming, modeling, and data analysis, as well as excellent written and oral communication skills.

The assistantship can begin in either Spring, Summer, or Fall 2020 and is supported by a PhD fellowship through the Department of Education Graduate Assistance in Areas of National Need (GAANN) program, **Enhanced Civil Engineering Training and Research to Rebuild America's Water Infrastructure**. The fellowship is fully funded for up to 5 years and available to qualified applicants who demonstrate financial need (*see details below) and intend to pursue teaching and research careers in Water Infrastructure. GAANN fellows will receive training and experience in both teaching and research. The research topic is flexible within the general area of urban ecohydrology and is best suited to students interested in gaining experience in data analytics and modeling of complex systems.

Please send inquiries to Dr. Anthony Parolari (anthony.parolari@marquette.edu, 414-288-3508). Interested candidates should send a cover letter, official or unofficial transcripts, CV/resume, and contact information for 2 references.

About Milwaukee and Marquette University

Located in Milwaukee WI on the shores of Lake Michigan, graduate research in Environmental and Water Resources Engineering at Marquette offers a unique opportunity to collaborate with industry and utility partners within the nation's most densely populated water tech cluster. Marquette is a partner in the NSF-funded Water Equipment and Policy Industry/University Cooperative Research Center (I/UCRC) (<http://www.wepiucrc.com/>) and the Global Water Center, an accelerator space for water innovation (<http://thewatercouncil.com/about-us/facilities/>).

*GAANN fellows will be required to demonstrate financial need through the Marquette University Office of Financial Aid using the College Scholarship Service to assess student needs in compliance with the guidelines of Title IV, Part F, of the Higher Education Act of 1965, as amended. All Fellows will certify in writing that they intend to complete the Ph.D. degree and are planning a career in teaching and research. Fellows must provide evidence that they are U.S. citizens or nationals, are permanent residents of the U.S., are documented by the Immigration and Naturalization Service to be in the U.S. for other than a temporary purpose and intend to become permanent residents, or are citizens of any one of the Freely Associated States. Applicants will need to apply to the Marquette University Graduate School: <https://graduate.admissions.marquette.edu/apply/>

Research Assistantship in Green Infrastructure Impact on Groundwater

The Parolari Research Group in the Department of Civil, Construction, and Environmental Engineering at Marquette University invites applications for a funded masters or PhD research assistantship on *green infrastructure impact on groundwater*. Our research group combines experimental data, theory, and models to study interactions between hydrology and biogeochemistry in urban systems (www.aphydro.com). We are seeking highly motivated individuals with the ability to work across disciplinary and institutional boundaries. The successful candidate will have (1) a bachelors or masters degree in civil and environmental engineering or related field; and (2) experience with computer programming and mathematical modeling. Responsibilities will include a combination of field work, data analysis, and computer modeling. Strong consideration will be given to candidates with demonstrated background in programming, modeling, and data analysis, as well as excellent written and oral communication skills.

The assistantship can begin in either Spring or Summer 2020 and is supported by a research grant from the Water Equipment & Policy Industry/University Cooperative Research Center (I/UCRC). The primary objectives of the project are to (1) monitor green infrastructure impact on surface-subsurface flow interactions and (2) develop models to inform watershed-scale planning of green infrastructure.

Please send inquiries to Dr. Anthony Parolari (anthony.parolari@marquette.edu, 414-288-3508). Interested candidates should send a cover letter, official or unofficial transcripts, CV/resume, and contact information for 2 references.

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