

PhD Research Assistant
Villanova University

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Posted Sep. 30, 2025, set to expire Dec. 1, 2025

Job Title	PhD Research Assistant
Department	Civil & Environmental Engineering
Institution	Villanova University Villanova, Pennsylvania
Date Posted	Sep. 30, 2025
Application Deadline	Dec. 1, 2025
Position Start Date	Available immediately
Job Categories	Graduate Student
Academic Field(s)	Water Resources Engineering Ecological and Environmental Civil Engineering
Apply By Email	virginia.smith@villanova.edu

Job Description

We are seeking a highly motivated and interdisciplinary Doctoral Research Assistant to join a collaborative project aimed at deepening understanding of urban rivers. This project leverages hydraulic modeling integrated with cutting-edge AI technology and field monitoring.

Key Responsibilities:

- Conduct field research on an urban river.
- Test field samples in a laboratory.
- Develop physics-guided machine learning models calibrated with real-time monitoring data.
- Contribute to the dissemination of research findings through academic publications, presentations, and community outreach.

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Qualifications:

- Bachelor's or Master's degree in Civil Engineering, Environmental Engineering or a related field.
- Experience or interest in AI applications, data science, and real-time monitoring systems.
- Excellent written and oral communication skills.
- Ability to work independently and as part of a collaborative team.

Preferred Qualifications:

- Familiarity with hydraulic modeling and field monitoring.
- Experience with machine learning applications in environmental systems.

Working at Villanova: The Villanova Center for Resilient Water Systems (VCRWS), part of the Department of Civil and Environmental Engineering at Villanova University, has the mission *to engage with society to create resilient solutions to global water challenges*. Villanova University is a national university with doctoral and master's programs. Aligning with Villanova's mission *veritas, unitas, and caritas*, we value and seek to empower all members of our community to develop their potential, bring their full self to the goals of VCRWS.

Benefits:

- Competitive stipend and tuition remission.
- Opportunity to work on a cutting-edge, cross-disciplinary project with real-world impact.
- Mentorship and collaboration with leading experts in civil engineering, environmental science, computer science, urban planning, and policy.
- Potential for professional development, including conference presentations and publication opportunities.

To apply, please send a CV to Dr. Virginia Smith (virginia.smith@villanova.edu).

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

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Contact

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