

Villanova University, Department of Civil and Environmental Engineering

Tenure-track faculty position in Water Resources Engineering

Villanova University's Civil and Environmental Engineering Department seeks applications for a full-time tenure track faculty position in Water Resources starting in the fall 2022 semester. The Department is looking for a water resources engineering faculty member that can complement and expand the scope of our research and graduate engineering strengths in water resources engineering, as well as contribute to and enhance the Department's undergraduate programs. Expertise in areas complementary to the existing faculty is sought and can include: risk and uncertainty in water resources applications including climate change adaptation; computational fluids/hydraulics including machine learning applications; open channel and surface water systems and infrastructure; watershed health; and water resources planning and management.

The Civil and Environmental Engineering Department has excellent infrastructure to support teaching and scholarship, including fluids, water resources, soils, environmental, and structural laboratories, computational teaching and research facilities along with the Stormwater Green Infrastructure Research and Demonstration Park. Additionally, a large expansion to the College of Engineering Center for Engineering Education and Research building will begin in Spring 2022 that will provide new undergraduate and research laboratories more than doubling the current research space. The successful candidate will be expected to develop and teach undergraduate and graduate courses, develop a strong research program, and perform service within and beyond the academic community.

The Department is recognized as a national leader in providing a distinctive broad-based civil engineering education, grounded in Augustinian Catholic values, and a commitment to service. The Department has 13 full-time tenure track faculty members and 5 full-time teaching faculty (42% female), approximately 240 undergraduate (40% female) and 150 graduate students and offers B.S. and M.S. (Civil Engineering and Environmental/Water Resources) degrees. A Ph.D. program is offered by the College of Engineering. We strive to be widely acknowledged as a premier program known for our outstanding pedagogy and curricula, international opportunities, and personal attention to students at both the undergraduate and graduate levels. Additionally, we seek to enhance our national reputation for research excellence while integrating the outcomes into the education of our students.

Villanova is a Catholic university sponsored by the Augustinian order. Diversity and inclusion have been and will continue to be an integral component of Villanova University's mission. The University is an Equal Opportunity/Affirmative Action employer and seeks candidates who understand, respect and can contribute to the University's mission and values. From its founding in 1842 to its position today as a nationally recognized university, Villanova University has forged a path of academic excellence. The University is strongly rooted in a sense of community, and the CEE Department and College of Engineering are deeply committed to work-life balance and providing family-friendly programs for our faculty.

Applications must be completed online at <https://jobs.villanova.edu/postings/21912>. Application packages must include curriculum vitae; academic transcripts; statements on teaching philosophy, and research interests (specifically detailing how these interests will align with and can potentially complement and enhance our existing research strengths); and the names and contact information of three references. Review of applications will begin in January 2021 and continue until the position is filled.

Duties and Responsibilities: The primary responsibilities include teaching 12 contact hours per year (9 contact hours in the first year), with typically one to two preparations per semester. Potential courses include undergraduate and graduate water resources and general civil engineering courses, particularly in fluid mechanics, fluid mechanics laboratory, hydraulics, hydrology, and water resources system design. There is also the opportunity to develop new courses, particularly at the graduate level.

Minimum Qualifications: A Ph.D. in Civil Engineering or closely aligned discipline is required (must be completed at the time of hire). The applicant must demonstrate a dedication to teaching excellence at both the undergraduate and graduate levels.

Preferred Qualifications: A Ph.D. in Civil Engineering is strongly preferred. Previous teaching experience is preferred.

Special Message to Applicants: Applications must include curriculum vitae, transcripts, and statements on teaching philosophy and research directions. The teaching philosophy should include interest and experience in student organization involvement (e.g. National Society of Black Engineers, Society of Women Engineers, American Society of Civil Engineers, NovaCANE). Applications must also include contact information for three (3) references who will be contacted to submit confidential letters of recommendation if the applicant is being highly considered.