

Multiple fully funded Ph.D. openings University at Buffalo

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Posted Oct. 5, 2020, set to expire Feb. 2, 2021

Job Title	Multiple fully funded Ph.D. openings
Department	Civil, Structural & Environmental Engineering http://engineering.buffalo.edu/civil-structural-environmental.html
Institution	University at Buffalo Buffalo, New York
Date Posted	Oct. 5, 2020
Application Deadline	Open until filled
Position Start Date	Available Immediately
Job Categories	Graduate Student
Academic Field(s)	Civil Engineering
Job Website	http://www.acsu.buffalo.edu/~liangx/
Apply By Email	liangx@buffalo.edu

Job Description

Description: Liang Research Group in the Department of Civil, Structural & Environmental Engineering at the University at Buffalo (UB) is looking for motivated Ph.D. student(s) starting in Spring/Fall 2021, who will conduct multidisciplinary research in one or more of the following areas:

- (1) Robotics and computer vision with applications to remanufacturing, infrastructure inspection, and building construction automation
- (2) Multi-objective optimization with applications to optimal sensor placement and performance-based structural design and/or network design

Requirements: We encourage applications from highly self-motivated students with a solid background in one of the following realms: robotics, image/signal processing, computer vision with coding experience in python, machine/deep learning, or a related experimental or analytical field. Students with a Master's degree in Civil Engineering or other related fields are preferred, while outstanding

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undergraduate students will also be considered. Candidates are encouraged to contact Dr. Xiao Liang (liangx@buffalo.edu) by sending a copy of CV, transcript, GRE and TOEFL/IELTS, and a list of three references, if available. Please explain how your past research/study experiences and your future research interests are aligned with the projects in the email.

About the Supervisor: Dr. Xiao Liang is an Assistant Professor in the Department of Civil, Structural & Environmental Engineering at the University at Buffalo. He obtained his Ph.D. in Structural Engineering from the University of California, Berkeley. His research focuses on health monitoring and autonomous inspection (e.g., using drones) through advanced data analytics, model-based and machine learning. He is particularly interested in such developments for infrastructure systems and buildings to enable assessing and quantifying the condition of structures in near real-time, aiming to enhance their sustainability and resilience under service and extreme events. His research interests also include performance-based methodologies for hazard resilience, nonlinear structural dynamics, earthquake engineering, and human-robot collaboration for future remanufacturing. More details: <http://www.acsu.buffalo.edu/~liangx/>

About UB: UB, a member of the prestigious American Association of Universities, is the largest and most comprehensive university in The State University of New York (SUNY) system. The department is located on the north campus in suburban Amherst, an area that combines outstanding public schools and services with a low cost-of-living. UB's civil engineering program is ranked 4th in the United States and 12th in the world according to the Academic Ranking of World Universities (ARWU), or Shanghai Ranking.

Contact Information

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

Contact