



Ph.D. Graduate Research Assistant Position

Position Description

The Smart Resilient Infrastructure and Urban Systems (SiRIUS) lab directed by Dr. Milad Roohi is hiring a motivated Ph.D. student in the [Durham School of Architectural Engineering and Construction](#) at the [University of Nebraska-Lincoln](#). The SiRIUS lab conducts research on the interplay and connection between the multi-disciplinary data, algorithms, computational models, and emerging technologies to improve the design, assessment, and monitoring of interconnected civil infrastructure and urban systems against deterioration, natural hazards, and climate change. The position will be based at Peter Kiewit Institute in Omaha and will provide competitive stipends, full tuition coverage, and benefits.

Qualifications

- B.Sc. and M.Sc. degrees in Civil/Architectural/Structural Engineering or other related disciplines.
- Research experience and interest in one or more of the following areas:
 - Multi-hazard risk, reliability, and resilience of civil infrastructure and urban systems
 - Sensing, identification, health monitoring, and control in structural and dynamical systems
 - Data science, machine learning, and network science applied to natural hazards research
- In-depth knowledge of mathematics, probability and statistical methods.
- Proficient in at least one of programming languages (e.g., Python and MATLAB)
- Capability to work independently and as part of a team with excellent communication skills.

Application Instructions

Qualified candidates are invited to send an email to Dr. Milad Roohi (milad.roohi@unl.edu) with the subject of "[Prospective Ph.D. Student - LAST NAME](#)" to briefly introduce their background and research interests and attach a single combined file including:

1. CV (with a list of degrees, publications, references, and English proficiency scores if available)
2. Unofficial transcripts
3. Representative publications if available
4. Short statement describing their relevant research experience and fit to the position

The review of applications starts immediately, and selected candidates will be contacted to schedule a virtual interview.

Applicants must submit an online application through the University of Nebraska-Lincoln's graduate school website for a Doctor of Philosophy (Ph.D.) in Architectural Engineering (Structural). For more information, please visit <https://graduate.unl.edu/academics/programs/AREN-PHD>.



The Durham School of Architectural Engineering and Construction
113 Nebraska Hall | P.O. Box 880642 | Lincoln, NE 68588-0500 | 402.472.3742
1110 S. 67th St. | The Peter Kiewit Institute | Omaha, NE 68182-0681 | 402.554.4482
durhamschool.unl.edu