

Research Assistantship and Fellowship Opportunities for Ph.D. in Structural Engineering

The Structural Health Monitoring group at the Department of Civil and Environmental Engineering at Lehigh University has open positions for motivated Ph.D. students. Interested students are encouraged to apply for the positions starting Fall 2014, Spring 2015, or Fall 2015. For more information about our group and publications, please visit

<http://pakzad.atlss.lehigh.edu/>

There are currently two research projects with open positions. The first is on the applications of mobile sensing for structural monitoring. We are trying to create the theoretical foundations for analysis of sparse data matrices for structural identification and damage detection. The second project is on compact sensing, where dense arrays of sensing grids are used for identifying the existence, location and severity of structural damage. In both cases decision support frameworks are created to integrate the information for the improvement of the safety and reliability of structural systems and infrastructure.

Students with a M.Sc. degree in Structural Engineering or Mechanical Engineering, preferably with experience in Structural Health Monitoring or other related areas are strongly encouraged to apply. Strong interest and background in applied mathematics, statistics, and signal processing is necessary. Undergraduate students with strong background in any of the aforementioned fields are also encouraged to apply. Our research profile includes highly rigorous theoretical work, as well as medium and large scale laboratory experiments, and field testing.

Lehigh is a premier residential research university, ranked in the top tier of national research universities each year. The CEE department is highly regarded in the US, and has a long history of excellence in research in structural engineering. We are a coeducational, nondenominational, private university that offers a distinct academic environment of undergraduate and graduate students from across the globe. Located in Pennsylvania's scenic Lehigh Valley, the campus is in close proximity to both New York City and Philadelphia. Lehigh is comprised of 2,358 acres, making it one of the largest private universities in the country.

Interested applicants may contact Prof. Shamim Pakzad (pakzad@lehigh.edu) with the following information: (1) a single page research statement explaining how your background fits our current research interests, (2) your resume, (3) copies of all publications. All documents should be in PDF format.