



GAANN Ph.D. Fellowships in Structural Infrastructure Resilience at University of Nevada Reno

The Department of Civil and Environmental Engineering at University of Nevada Reno is pleased to announce the availability of GAANN (Graduate Assistance in Areas of National Need) PhD Fellowships in Structural Engineering. This GAANN program will support fellowships related to the general theme Rebuilding the Nation's Structural Infrastructure for Resilience to Extreme Events. GAANN Fellows will receive a need-based stipend of up to \$34,000 per year, and tuition and fees are covered by the fellowship.

Fellows will be part of the earthquake and structural engineering program, which houses two state-of-the-art structural laboratories and testing facilities. Major equipment includes a re-locatable four-shake-table array capable of simulating large earthquakes for system level experiments, and a fifth shake table and bilinear laminar soil box for studying soil-structure interaction (currently under construction). Fellows will select one of eight faculty advisors, and work with their advisor to select a scope of research that is suited to their interests. Fellows will have opportunities for an enhanced graduate school experience that grants student autonomy, develops strong peer networks, and provides overall better preparation for a career in academia. As an essential program element, Fellows will receive teaching instruction from Engineering Education program, and be given the opportunity to practice by co-teaching with a faculty mentor.

Applicants are currently sought for a fellowship start date of Spring or Fall of 2020. Fellows must be U.S. citizens or permanent residents, demonstrate financial need via evaluation of the FAFSA, qualify for admission to the PhD program in Civil and Environmental Engineering, and aspire to a career in research and/or teaching. Applications are especially encouraged from candidates that are underrepresented in engineering.

For more information, please visit our website:

unr.edu/cee/graduate-program/gaann-fellowships



SAMPLE RESEARCH TOPICS

- Next generation protective systems for buildings and bridges.
- Coastal resilience to inundation by tsunami and/or hurricane storm surge.
- Nonlinear soil-structure interaction via experimentation and simulation.
- High performance computing and regional-scale evaluations of earthquake hazard and risk.
- Nonlinear structural system identification, structural health monitoring and damage diagnosis.
- Wildfire simulation and probabilistic risk assessment
- Mitigation of damage to nonstructural components.
- Innovative seismic sensors.

ADMISSIONS REQUIREMENTS

GPA of 3.0 for M.S.

GPA of 3.25 for Ph.D.

Combined verbal and quantitative GRE scores of 302

Contact

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University of Nevada, Reno