



## Graduate Student Research Assistant (RA) Position

March 2021

The University of Alaska Anchorage (UAA) Department of Civil Engineering is seeking a Graduate Research Assistant in Structural Engineering. Ideal student would be completing a BS in Civil Engineering in May and be able to start in June 2021. The position includes resident tuition, stipend, and health insurance for two years.

As part of the WRGP agreement, residents of Western states are eligible for Alaska resident tuition at UAA.

### **Project Description:**

Entitled "Comparison of the Seismic Reliability of Structures in Jurisdictions with and without Building Code Enforcement" and funded by FEMA. The goal is to investigate the seismic response of buildings with design flaws or construction errors, which are likely more common outside the building-code enforcement zone. The project will involve full-scale seismic testing of wood shear-wall structures in the lab, statistical analysis and modeling of the data, interviewing and interacting with the local building community about their inspections after the 7.0 Magnitude earthquake in Nov 2018, and planning educational seminars for contractors and design professionals. The project is hands-on, community engaged, and involves interaction with a team of talented researchers.

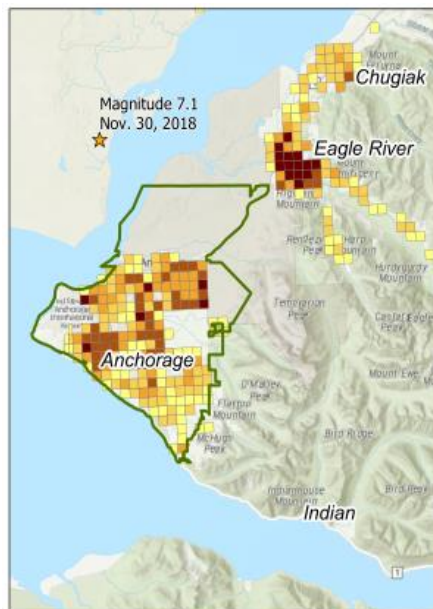
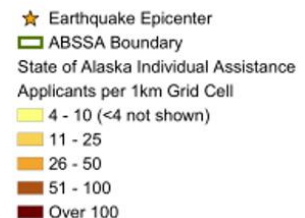


Image courtesy of FEMA

**November 30, 2018:** A magnitude 7.1 earthquake caused significant shaking in the communities of Anchorage, Eagle River, and Chugiak. The State of Alaska received thousands of requests for individual Assistance. Despite the less urban composition of Eagle River and Chugiak, their applicant densities are quite high, especially Eagle River.



### **About Civil Engineering at UAA:**

The Master of Science in Civil Engineering (MSCE) program at UAA is a regionally recognized graduate program that is highly focused on applied engineering. As part of the largest engineering program in the State, there are ample opportunities for you to work closely with faculty members in state-of-the-art laboratories on relevant and exciting research projects. With emphasis areas and extensive coursework in Structures, the Arctic, Environmental, Geotechnical, Transportation, and Water Resources - the MSCE program can further your education and accelerate your career into civil engineering.

### **About Anchorage:**

Anchorage is a low-density city of 300,000 people with all the amenities of a major city nestled between a mountain range and two "arms" of the ocean. It encompasses a green space the size of New Hampshire that includes both a downhill and cross-country ski areas. UAA is the largest University in Alaska and boasts a new Structures lab (2015) and the only working strong-floor in Alaska.

Interested students should email a resume or questions to [sehamel@alaska.edu](mailto:sehamel@alaska.edu)