A postdoctoral scholar is sought for a position in Structural Engineering to work under the co-advise of Dr. Andre Barbosa (Oregon State University, OSU), Dr. John van de Lindt (Colorado State University, CSU), and Dr. Siamak Sattar (NIST). The successful candidate will serve as a postdoctoral scholar to conduct research on functional recovery of structural and non-structural elements. The anticipated scope of the work includes high-fidelity finite element modeling under seismic loading. For further details on the research, scope and position expectations please contact Dr. Andre Barbosa.

Qualifications: Candidates should have been awarded a Ph.D. in Civil Engineering with a focus on Structural Engineering or a related field within the last five years, and have an excellent record of research, publications, and strong communication skills. Successful candidates will ideally have a strong background in seismic performance of structures, high fidelity finite element modeling, probabilistic risk assessment with emphasis on seismic effects on structural or nonstructural components of building systems. The following experience with software or coding is preferred: OpenSees or other high fidelity finite element software; coding in python and/or Matlab. The candidate must have the ability to work independently to achieve project objectives, meet project deadlines and reporting requirements, and help mentor other junior (student) team members. The candidate also must fill an important role in facilitating collaborations with the multi-disciplinary, multi-institutional project team.

Appointment: The appointment is expected with an anticipated latest start date of November 30th, 2022. This date may be discussed and adjusted as needed. The salary and benefits are competitive, and funding is available for the postdoctoral fellow for travel and training purposes. The candidate is expected to work on site, however, the location for the work can be at Oregon State University (Corvallis, Oregon) or Colorado State University (Fort Collins, Colorado).

To Apply: Please contact Dr. Andre Barbosa (andre.barbosa@oregonstate.edu) with the subject heading “Structural Engineering Post-Doc Application” and provide a CV, two sample publications, and the contact information of at least two references. Review of applications will begin immediately until position is filled but is expected to close by November 1, 2022. Additional information may be requested upon review.

Additional Information: Additional details on the research groups with which the postdoctoral scholar will be affiliated can be found at: https://cce.oregonstate.edu/barbosa (Dr. Barbosa webpage); https://www.engr.colostate.edu/~jwv/ (Dr. van de Lindt webpage); https://www.nist.gov/people/siamak-sattar (Dr. Siamak Sattar webpage). Additional information about the institutions can be found next.

OSU: The School of Civil and Construction Engineering at Oregon State University houses world-class faculty member in various fields in Civil Engineering, including Structural, Materials, Coastal, Geomatics, Transportation, among others. Oregon State University, as one of the largest land grant institutions in the U.S., is located in Corvallis, Oregon. Corvallis has been ranked as the 5th best college town in the US, https://livability.com/top-10/college/10-best-college-towns/2019/or/corvallis, and was named the best city to live in Oregon by the US Chamber of Commerce https://www.chamberofcommerce.org/best-cities-to-live-in-oregon/. With proximity to the ocean and mountains for outdoor activities and a supportive, inclusive community, Corvallis offers excellent work-life balance for all who come to live in Oregon.

CSU: The Department of Civil and Environmental Engineering (https://www.engr.colostate.edu/ce/) at Colorado State University is recognized for our research, education, and outreach focused on providing sustainable and resilient solutions to improve the quality of life for all society. Colorado State University is located at the foothills of the Rocky Mountains in Fort Collins, Colorado (https://www.visitcharlotte.com/blog/post/31-things-that-will-make-you-love-fort-collins/) and consistently is ranked a top place to live (https://livability.com/best-places/the-2020-top-100-best-places-to-live-in-america/fort-collins/).

NIST: The Earthquake Engineering Group (EEG) of the National Institute of Standards and Technology (NIST) conducts applied research to develop, advance, and deploy measurement science for earthquake hazards reduction of buildings and infrastructure lifelines in ways that enhance public safety, community resilience, and economic security. The EEG operates out of NIST’s main Campus in Gaithersburg, MD, situated just outside of Washington D.C.