



Postdoctoral Fellow in Civil / Mechanical Engineering

The Advanced Manufacturing and Materials Properties Laboratory and the Agricultural Mechanics Laboratory

seek to hire a postdoctoral fellow with engineering skills that can be applied to analyze 3D printed bio-based composites. We seek engineers who are good at communicating across disciplines, and who see themselves thriving in a highly collaborative environment. The successful candidates will have the opportunity to collaborate with leading scientist and researchers as part of a 4 million-dollar NSF research award focused on transforming the construction industry through development of additive manufacturing of renewable bio-based materials. More information about the team and project can be found at <https://printimber.org/>

Minimum Qualifications

- PhD in mechanical, civil, or biological engineering or a closely related engineering discipline
- Record of accomplishment that demonstrates oral and written communication skills
- Experience in the area of solid mechanics / stress analysis
- Willingness to work as part of an interdisciplinary team

Preferred Qualifications

- Experience in computational biomechanics or solid mechanics
- Experience in nonlinear finite element analysis
- Experience conducting material characterization experiments
- Ability to mentor undergraduate and graduate students
- Willingness to take on responsibility and proactively seek solutions to enhance the safety and viability of the future construction industry

Job Description

The overarching goal of this project is to create a foundational framework which utilizes renewable and waste feedstocks to make 100% bio-based materials for the advanced housing manufacturing industry of the future. The successful applicant will serve as a postdoctoral scholar working full time under the supervision of Dr. Daniel Robertson in the Department of Mechanical Engineering and Dr. Ahmed Ibrahim in the Department of Civil and Environmental Engineering. He or she will be responsible for mentoring undergraduate and graduate student projects. The fellow will be responsible for creating high quality publications and prior experience using finite element analysis and material characterization techniques will be advantageous. The position includes retirement and health benefits. For more information about the project visit <https://printimber.org/>.

Location

The University of Idaho is located in Moscow, Idaho, only eight miles from Washington State University in Pullman, Washington, providing an academically and culturally rich community. Moscow is a friendly mid-sized community on the rolling hills of the Palouse, with great parks, bike paths, restaurants, farmers market and fantastic opportunities for recreation in the adjacent mountains and rivers. For more information about the University of Idaho and Moscow, go to <http://www.uidaho.edu/>, and <https://www.ci.moscow.id.us/>.

Inquiries / Application Process

Questions about the position can be directed to Dr. Robertson via email danieljr@uidaho.edu or phone 208-885-7889. Applications can be sent to Dr. Robertson via email danieljr@uidaho.edu and should include a resume / CV and a cover letter that addresses the required and preferred qualifications.

SCREENING OF CANDIDATES BEGINS IMMEDIATELY AND WILL REMAIN OPEN UNTIL THE POSITION IS FILLED.

The University of Idaho is an equal opportunity employer and does not discriminate against any employee or applicant for employment because of race, color, religion, national origin, age, disability, sexual orientation, gender identity/expression or any other reason prohibited under Federal, State, or local laws. EOE AA/M/F/D/V