



Oregon State
University

GRADUATE RESEARCH ASSISTANTSHIPS (GRAs) OFFERED BY THE DEPARTMENT OF WOOD SCIENCE & ENGINEERING, OREGON STATE UNIVERSITY (OSU)

Scientific area: Architecture, Civil Engineering, Wood engineering or related fields of science.

The Department of Wood Science & Engineering (WSE) is seeking PhD and MS students with an interest in in applied research in the areas of *mass timber buildings, modular construction and monitoring*. The research tasks will include 1) designing, planning and developing blueprints of a demonstration modular building/unit; 2) testing building components, i.e., custom-made cross-laminated timber (CLT) panels; 3) prototyping, i.e., participate in the process of fabrication of full scale modular units; 4) instrumenting prototypes with sensors to collect performance data; 5) communication and dissemination.

Interested students should apply to the Department of Wood Science & Engineering at OSU, or already be a current or accepted graduate student at OSU without funding.

Opportunity to seek dual major degrees with College of Engineering also exists.

Research topics: Candidates will be involved in a USDA funded research project on the following topic:

Demonstrating use and performance of a CLT modular building utilizing low-value pine lumber from logs harvested in Pacific NW forest restoration programs: In this project we will design, build, deploy, monitor and publicize a demonstration modular unit made from cross-laminated timber using lower-value ponderosa pine. The demonstration unit will show the technical and economic viability of large-volume production of robust modular units that can be used in low- and mid-rise residential and commercial buildings as well as temporary or emergency housing (e.g. disaster housing).

Admission requirements: in addition to the requirements for admission to the [Graduate School at Oregon State University](#), qualified applicants should also meet most of the following (when applicable):

1. Bachelor or Master's degree in one of the following fields: Architecture, Civil or Structural Engineering, Wood Science, or related field;
2. Interest in modeling and/or experimental work on wood construction systems, design and performance;
3. Communication and teamwork skills;
4. Willingness to work with power woodshop equipment, hydraulics, and other equipment in a laboratory environment and on-site;

Duration of the funding: The funding will last 12 (twelve) months, with the possibility of renewal for up to two additional years, dependent upon satisfactory progress. The position is available from September 16, 2018.

Funding: The selected candidate will receive a monthly stipend between \$1,936 and \$2,085, depending on experience & degree, a tuition waiver for all terms enrolled, and insurance benefits.

Useful information:

- **WSE Graduate Handbook**
tinyurl.com/WSEhandbook
- **Graduate Studies at OSU**
http://oregonstate.edu/dept/grad_school/docs/osu-gradschool-brochure.pdf

- **Wood Science Information**
tinyurl.com/WSEhandbook

For International Students:

- **International Graduate Admission Information**
<http://gradschool.oregonstate.edu/admissions/international>

Location of work and responsible professors:

The research will be conducted at the Department of Wood Science & Engineering. The PhD candidate will be jointly advised by Dr. Mariapaola Riggio , and Dr. Lech Muszyński.

Application deadline and submission:

Interested students should first contact the responsible Professors, Mariapaola Riggio or Lech Muszyński and then submit the graduate school application, fee and supporting materials.

To apply please visit: <http://oregonstate.force.com>. You will need to create an account and password to begin the application process.

After you have filled out the application in its entirety you will need to submit the application and pay the fee by credit card; \$75 for domestic applicants, \$85 for international applicants.

In order to consider your application complete and ready for review, the Wood Science & Engineering program needs the following items:

1. GRE Scores (Test information available at: <http://www.gre.org>)
2. TOEFL/IELTS Scores (WSE required scores are: TOEFL iBT of 93 & IELTS of 7.0)
3. Statement of Objectives
4. Three (3) letters of recommendation
5. Copies of your transcripts (academic records) from your undergraduate & graduate courses and degree statements for your Bachelor's & Master's degrees, if applicable

Form of advertising / notification of results: Once the Wood Science & Engineering program has a complete application, our committee will review your application and credentials. We will notify you of our decision, and forward our decision to the Graduate School who will evaluate your application to ensure that you meet the University requirements for admission. At that time they will follow up with you for any documents that are needed on their end.