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

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

The Department of Wood Science & Engineering (WSE) is seeking MS or PhD students with an interest in applications to mass timber building design and monitoring. The research work will involve both timber engineering, wood science and architectural design. The research approaches can include (depending on the specific field of interest and background): hands-on applied research in architecture, on field and laboratory monitoring, FEM analysis, statistical analysis of data, experimental design.

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. For details on specific projects, interested students can contact Mariapaola Riggio by email.

Research topics: Candidates will be involved in a research project in the following area:

**Short- and long-term performance of mass timber buildings:** This project aims at evaluating the performance of mass timber systems considering: Structural behavior; Durability; Functionality. Monitoring techniques will be applied both on scaled laboratory samples and on-site, to collect data from different sensors and analyze the response of the tested systems to different actions (e.g. static/dynamic loads, environmental actions, etc.). The project aims at identifying risks, vulnerabilities and resilience properties of mass timber systems.

The candidates can also propose alternative/complementary research topics, which will be evaluated by the selection committee and eventually agreed with the advisor.

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’s or master’s degree in one of the following fields: wood science, civil, structural mechanical engineering, architecture, or related field;
2. Interest in modeling and/or experiments on wood construction systems, design and performance;
3. Skills in computer graphics; FEM analysis; statistical analysis of data;
4. Willingness to work with power equipment, hydraulics, and other equipment in a laboratory environment and on-site;
5. Demonstrated proficiency in written and spoken English.

Duration of the funding: The funding will last 12 (twelve) months, starting after January 2016, with the possibility of renewal for up to two additional years, dependent upon satisfactory progress.

Funding: The selected candidate will receive a monthly stipend between $1,303 and $1,963, depending on experience & degree, a tuition waiver for all terms enrolled, and insurance benefits.

Useful information:

- WSE Graduate Handbook
- Graduate Studies at OSU
  [http://oregonstate.edu/dept/grad_school/docs/osu-gradschool-brochure.pdf](http://oregonstate.edu/dept/grad_school/docs/osu-gradschool-brochure.pdf)
• Wood Science Information
  http://gradschool.oregonstate.edu/programs/3690/wood-science-phd-ms-minor

For International Students:
• International Graduate Admission Information
  http://gradschool.oregonstate.edu/admissions/international
• Information on Acquiring a Student Visa
  http://international.oregonstate.edu/isas/current-students/visa-immigration-information#Acquiring

Location of work:
The research will be conducted primarily within the Department of Wood Science & Engineering. WSE is a multidisciplinary department focused on science, technology, engineering, design and business practices. Research may also take place in the facilities in the new founded National Center for Advanced Wood Products Manufacturing and Design and at the University of Oregon’s School of Architecture & Allied Arts.

Application deadline and submission:
Interested students should first contact the responsible Professor, Mariapaola Riggio, and then submit the graduate school application, fee and supporting materials, before the end of January 2016 for optimal consideration. After this date, applications will be considered on a fund-available basis.

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.