

Position Title: TallWood Design Institute GE

Supervisors: Professor Judith Sheine and Associate Professor Mark Donofrio

Work Space: TBD

Hours per Week: 12 hours/week (0.30 FTE, 11 weeks)

Appointment terms: Fall 2018; Winter 2019; Spring 2019

PROJECT DESCRIPTION & DUTIES

For Fall 2018 and Winter and Spring 2019, this position is for a GE to perform the following research activity associated with the TallWood Design Institute. The GE will work with the faculty supervisors and a graduate student in Oregon State University's College of Forestry to create case studies of capital projects that include mass timber at the two universities.

The GE tasks will include:

- 1) Conducting a **literature search** (conference papers, articles, case studies, resources, key research personnel, etc.) on similar projects in the U.S. and Canada that use cross laminated timber. This GE will also collect, read, summarize, annotate, develop topics and analyze relevant literature through library research in databases, journals, conference proceedings, research organization, and other relevant searches and conduct interviews with architects, engineers, construction professionals, and mass timber manufacturers and fabricators, as well as with faculty at the University of Oregon's College of Design and Oregon State University's Colleges of Forestry and Engineering. *GE is expected to know how to conduct library research (beyond simple web searches) and have excellent writing skills.*
- 2) The GE will be shadowing the design and construction teams for the Knight Campus for Accelerating Scientific Impact at the University of Oregon, the new Academic Building 2 at Oregon State University's Cascades Campus, and for any new UO or OSU buildings that use mass timber that are in the design and/or construction process during the 2018-19 academic year. The GE will meet with the architecture, engineering, construction, and mass timber manufacturing and fabrication professionals, visit professional offices and construction sites and conduct interviews and meetings by videoconference as necessary. They will also meet with faculty researchers at UO's College of Design and OSU's Colleges of Forestry and Engineering who are conducting research related to these capital projects.
- 3) The GE will document the design and construction processes of these buildings, including BIM models, written documents and photographs with a focus on innovations in mass timber design and construction. Expectations are to produce:
 - a. Two to four case studies of the design and construction processes of UO and OSU mass timber capital projects.
 - b. Co-author a final report on the case studies for presentation at professional conferences and for posting on the TallWood Design Institute website.

REQUIRED EXPERIENCE & DESIRED SKILLS

The successful candidate should be skilled in REVIT, MS Word, Excel, InDesign, Illustrator/Photoshop, Powerpoint, and possess good communication (writing, speaking, note-taking) skills. The preferred candidate must be able to work independently, take initiative, and follow direction. No previous experience in mass timber design and construction is required, but some knowledge of and experience with construction documents and mass timber design is highly preferred.

TO APPLY

Students interested in applying for this position should send a CV and a brief letter of interest to Professor Judith Sheine (jesheine@uoregon.edu). In your letter, please explain your interest in mass timber design and construction, experience in construction documents and/or mass timber design, and skills in writing, literature search, graphic/layout capabilities. Deadline to apply is April 24, 2018; decision to be made by April 30, 2018.