

Job Title: Post Doctoral Scholar

Department: Wood Science and Engineering
Job Location: Corvallis
Position Appointment Percent: 100%
Appointment Basis: 12
Pay Method: Salary

Post Doc Job Description

The incumbent will work with Dr. Lech Muszynski, professor in the department of Wood Science and Engineering as part of a team on projects related to qualification of low value lumber for use in engineered mass timber products.

The incumbent will contribute to the research project by developing edge bonding technology for thin and narrow low-value lumber into laminations suitable for utilization in laminated mass-timber products, developing design values for such laminations and by coordinating and co-supervising related work of two MS-level graduate research assistants recruited specifically for this project.

Decision Making Guidelines:

Incumbent will be responsible for making tactical and daily decisions regarding a range of aspects of the project that are compatible with the project's goals, objectives, and timelines. These decision making may include selection and procurement of testing materials, equipment and instrumentation, selection of testing methods, developing test setups, instrumentation plans, data acquisition, management, and analysis, producing scheduled deliverables communication of outcomes in internal reports, professional conferences, and refereed journals. The decisions will be consulted with supervisor and communicated to relevant team members.

Position Duties:

55% – Participate in research related to development the edge bonding technology and determination of design values for low-value laminations for laminated mass timber products. This activity includes conducting state-of-the-art inquiries, selection and procurement of testing materials, equipment and instrumentation, selection of testing methods, developing test setups, instrumentation plans, data acquisition, management, and analysis. In addition, preparing internal summaries, progress and stage reports to be discussed with the supervisor and the research team as well as scheduled deliverables communication of outcomes to the funding agency.

15% – Preparing project outcomes for presentations at professional conferences, and drafting manuscripts for publications in refereed journals.

15% – Coordinating and co-supervising the work of two MS level graduate research assistant working on related sub-projects.

15% – Professional Development: Attend conferences relevant to the field, participate in activities and workshops focused on grantsmanship, research management and teaching.

Minimum Qualifications:

- Requires a PhD in Wood Science, wood science and Engineering or Wood Science Technology or related field.
- Demonstrable lab experience in mechanical testing of wood and wood-based composites (or related products)
- Fundamental programming skills to assist data management, processing and analysis (e.g. Matlab, statistical software)
- Demonstrated proficiency in quantitative literacy and written technical communication (refereed publication(s) as lead and corresponding author)
- Strong oral communication and interpersonal skills.

Preferred (Special) Qualifications:

- Prior experience with or strong interest in forest products manufacturing (e.g. primary processing, laminated structural wood-based composites)
- Prior experience or strong interest in structural lumber grading systems and techniques
- Prior experience with management small research teams and supervising professional personnel
- A demonstrable commitment to promoting and enhancing diversity, equity and inclusion.

To Apply: Send CV/Resume with letter of interest detailing your qualifications and three reference contacts.
Contact – lech.muszynski@oregonstate.edu