



**OREGON STATE UNIVERSITY
REQUEST FOR QUOTE (RFQ)**

RFQ #		MA182627Q	ISSUE DATE:	06/01/16
			RFQ DUE DATE:	06/09/16 @ 9:00 AM
DELIVER TO:			REQUESTED BY / RETURN QUOTE TO:	
DEPARTMENT:	Forest Research Laboratory		NAME:	Michele Andersen
ADDRESS:	3015 SW Western Blvd		E-MAIL:	michele.andersen@oregonstate.edu
CITY, STATE ZIP:	Corvallis, OR 97331		TELEPHONE:	541-737-3667
REQUIRED DELIVERY DATE:	ASAP		FAX:	541-737-2170

ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL PRICE
1	<p>Test Fire Performance of CLT Panels</p> <ol style="list-style-type: none"> Requirements: Burn tests on 6 CLT assemblies will be required: 3 tests on loaded 10' x 10' CLT vertical wall panel assemblies, each with a vertical joint in the middle; 3 tests on loaded (approximately 120lb/sqft) 14' x 18' CLT horizontal floor/ceiling panel assemblies with a joint along the 14' direction. All panels consist of 5 solid layers and are 7 1/2" thick. All panels are untreated/unprotected. Burn tests will be conducted following ASTM E119 standards, however these tests are not aimed at ASTM certification of the assemblies. The ASTM E119 tests are meant as a baseline for experimental program that requires additional instrumentation and measurement of parameters not covered by the standard. Vertical wall assemblies will be loaded in-plane to the design load or max load available using the lab frame (whichever is smaller). Horizontal floor assemblies will be loaded to the design load or to the max load available using the lab equipment (whichever is smaller). Burn tests will be conducted for 2 hours, or to failure if less than two hours. Surviving vertical assemblies will be hose-stream tested following fire exposure. Temperature monitoring – vendors equipment will be capable of monitoring 50-60 implanted thermocouples per panel assembly. Vendor will accommodate space and equipment for OSU research technicians to operate one thermo-imaging unit during all burn tests. Vendor will accommodate space and equipment for two OSU research technicians to operate digital image correlation cameras during all burn tests. Any testing facility more than 500 miles from Portland, OR will pay shipping costs for the CLT panels. 12 Panels will be shipped from two manufacturers, and assembled into 6 testing sections on-site by OSU research technicians. Vendor will return sample remains to OSU. Those facilities more than 500 miles from Portland, OR will pay for return shipping. Reports – vendor will provide formal report summarizing fire resistance of each assembly, general test observations, photographs and temperature data (related to E119 protocol). All tests will be scheduled and completed, and reports will be provided by June 30, 2016. 	6	Batches		
	<p><u>INTRODUCTION</u></p> <p>Oregon State University is seeking Responsive Responsible Bidders to submit Bids to collaborate in a research effort to study the fire characteristics of Cross Laminated Timber (CLT) wall and floor assemblies under loads.</p>				



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	<p>BACKGROUND</p> <p>OSU's Wood Science & Engineering Department, and Advanced Wood Products Laboratory are multidisciplinary university programs focused on science, technology, engineering and business practices that help society sustainably meet our needs for renewable materials, and help ensure the global competitiveness of American business. Increasing demand for new materials and intensifying global competition demand innovation, new discovery and well-educated professionals. Our programs are at the forefront of that challenge. OSU is investing in technologies that will support future needs. Studying the performance characteristics of CLT wall and floor assemblies, developing connection hardware, creating/evaluating new design concepts and working to revise building codes will be part of this investment.</p>				
<p>Delivery is f.o.b. destination, prepaid and allowed. Shipping, freight and handling must be included in quoted prices. Additional costs for such are disallowed.</p>				<p>TOTAL</p>	
<p>DELIVERY TIME AFTER RECEIPT OF ORDER:</p>			<p>PRICES VALID THROUGH:</p>		
<p>SPECIAL INSTRUCTIONS:</p>		<p>VENDOR INFORMATION:</p>			
<p>1. Unless otherwise specified, all items quoted are to be new, unused and not remanufactured in any way. 2. Brand names are for the purpose of describing and establishing the characteristics desired and are not intended to limit or restrict competition. Quoters may submit quotes for substantially equivalent products unless the RFQ provides that a specific brand is necessary because of compatibility requirements, etc. All such brand substitutions shall be subject to approval by OSU. 3. Quoters must clearly identify all products quoted. Brand name and model or number must be shown. 4. Only documents issued as addenda by OSU serve to change the RFQ in any way. 5. OSU reserves the right to make the award by item, partial or whole lots, groups of items or entire quote, whichever is in the best interest of OSU. 6. OSU may reject any Quote not in compliance with the RFQ, attachments, and addenda, or if it is in the best interest of OSU. 7. This RFQ form must be completed, signed and returned with all required documents.</p>		<p>COMPANY:</p>			
		<p>ADDRESS:</p>			
		<p>CITY, STATE, ZIP:</p>			
		<p>CONTACT NAME:</p>			
		<p>E-MAIL:</p>			
		<p>TELEPHONE:</p>			
		<p>FAX:</p>			
		<p>VENDOR SIGNATURE:</p> <p><i>By signature below the undersigned certifies that they are authorized to act on behalf of the quoter and will comply with all aspects of the quote herein.</i></p>			
		<p>SIGNATURE:</p>			
		<p>NAME/TITLE:</p>			

This procurement is subject to the indicated Oregon State University Standard Terms and Conditions for: Goods Services Purchase Order Construction Software. The indicated terms and conditions may be viewed at <http://pacs.oregonstate.edu/terms-and-conditions>