



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

		ISSUE DATE:	5/31/17		
RFQ #	MA188730Q	RFQ DUE DATE:	6/8/17 @ 9:30		
DELIVER TO:		REQUESTED BY / RETURN QUOTE TO:			
DEPARTMENT:	PCMM	NAME:	Michele Andersen		
ADDRESS:	644 SW 13 th Street	E-MAIL:	michele.andersen@oregonstate.edu		
CITY, STATE ZIP:	Corvallis, Oregon 97333	TELEPHONE:	541-737-3667		
REQUIRED DELIVERY DATE:	See specifications for breakdown	FAX:	541-737-2170		
ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL PRICE
1	Custom Axis Camera system	1-20	EA		
	<p><u>Camera Requirements:</u></p> <ul style="list-style-type: none"> - Ability to function in a temperate rainforest (200 inches of rain annually and a wide range of temperatures) - Ability to mount camera in tree tops without drilling into bark, up to 300 ft above the ground where cameras will not be accessible for 3-6 months at a time. (Power and data storage must be on the ground.) - Outdoor ready IP66 and NEMA 4x rated, or better; with an integrated dehumidifying membrane - Bullet camera style, as small as possible - Light-weight (not to exceed 4 pounds) - Temperature controlled - Focal length 4.7-84.6 mm - Shutter time up to 2 seconds - Memory 256 MB RAM or 128 MB Flash - Built in, integrated, power-efficient IR utilizing auto-adjusting LEDs; automatically removable infrared filter in day mode and infrared pass filter in night mode - Auto-focus capability, and programmable focus capability - 18x optical zoom and 12x digital zoom, with preset positions – must be able to zoom in to the nests of a robin sized bird from distances of 5-30 meters away, and adjust for wind movement while mounted in a tree - Image quality and zoom must allow identification of small (1-5 inch) fish prey items to species, predators to species, 1 inch transmitter on back of study bird – from 5-30 meters away - Power over Ethernet: data and power must be transferred through a single cable – camera may be up to 300 feet from battery power and data storage device; more commonly 100-200 feet - Audio: capable of two way streaming, audio file compression, audio detection and programing (including option NOT to record audio) - Integrated video management software: ability to view and export recorded video - Ability to program camera zoom, focus, image size, frames per second, audio, recording time, IR timing (or automatic), motion detection - Intuitive GUI accessed through a tablet or laptop from the ground to see the camera's view in real time and make real time changes to camera's settings in the field - Mounting hardware and tools - Provide options for mounting brackets - Installation guide, user manual, relevant software license(s), computer driver(s), connector(s), gasket(s), port(s) to run the camera, and tool(s) necessary to adjust the camera housing or brackets as needed, based on the camera model's needs 				



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	<p><u>Video requirements:</u></p> <ul style="list-style-type: none"> - Resolution 1920x1080 to 160x90 - Frame rate up to 30/25 fps in all resolutions - Video compression capability; streaming multiple, individually configurable streams at least one of which is Motion JPEG - Image settings manual shutter time, compression, color, brightness, sharpness, white balance, exposure control, exposure zones, backlight compensation, fine tuning of behavior at low light, rotation, text and image overlay, day/night shift level WDR-dynamic contrast <p><u>Power system and wiring requirements:</u></p> <ul style="list-style-type: none"> - Power over Ethernet IEEE 802.3af; DC max 15.2 W; AC max 22.0 VA - Outdoor rated Cat5e cable with matte black casing, in lightweight, packable containers, either 250ft or 500ft length per camera system (weight not to exceed 30 lbs) <ul style="list-style-type: none"> o Length to be determined on case by case basis when each system is ordered - Battery must last 3 days (72 hours), minimum <ul style="list-style-type: none"> o Battery weight should not to exceed 65 lbs o Battery must fit inside a lockable, weatherproof, bear-proof container along with a data storage device and wiring o The minimum number of batteries for each camera system is two, swappable o Quick smart charger for batteries - Appropriate wiring and switches built in to custom housing (plug and play ready on arrival) - Wifi switch (on/off) for accessing camera view with a laptop or tablet when in the field (turn off to save power when not in field); appropriate NEMA housing - Extra Ethernet port option, as backup option if wifi switch isn't working <p><u>Data storage:</u></p> <ul style="list-style-type: none"> - Camera should support microSD/SDHQ/SDXC cards; and recording to network attached storage (NAS) - Two swappable hard drives per camera for data storage (one drive to record, 1 drive to swap) <ul style="list-style-type: none"> o Each hard drive should have a recording capability of 72 hours each, minimum - Equipped with a ruggedized computer to facilitate use of hard drives for storage <p><u>Housing for power system and data storage devices:</u></p> <ul style="list-style-type: none"> - Weather proof, water tight, vented enclosure - Must be bear proof and made of material that does not attract bears - Pad-lockable - Ability for storage space for system components, electronics, data storage, and battery <p>Must be designed to be accessed on the ground to change batteries, and switch out data storage devices, while also being connected to the camera in the treetop</p>				
2	Extended 3 year Warranty	1	EA		
3	Option: Vendor to Create private YouTube channel with custom videos outlining step by step instructions for setup and installation purposes, maintained by the company. Or power point presentations update by the company as needed.	1	EA		
4	Option: - Technical support for each camera system including troubleshooting with setup, installation, and in-the-field assistance over the phone, and/or remote access through a laptop, if not already standard.	1	EA		
	First 4 units delivered 3 weeks ARO the balance Staggered as needed.				



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	We are looking to purchase between 1 to 20 of these units. If you need to provide a breakdown for price breaks please do.				
	NOTE: solar and wind power are NOT options because of dense forest vegetation and limitations of working with a federally listed species				
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.				TOTAL	
DELIVERY TIME AFTER RECEIPT OF ORDER:			PRICES VALID THROUGH:		
SPECIAL INSTRUCTIONS:		VENDOR INFORMATION:			
<p>1. Unless otherwise specified, all items quoted are to be new, unused and not remanufactured in any way.</p> <p>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.</p> <p>3. Quoters must clearly identify all products quoted. Brand name and model or number must be shown.</p> <p>4. Only documents issued as addenda by OSU serve to change the RFQ in any way.</p> <p>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.</p> <p>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.</p> <p>7. This RFQ form must be completed, signed and returned with all required documents.</p>		COMPANY:			
		ADDRESS:			
		CITY, STATE, ZIP:			
		CONTACT NAME:			
		E-MAIL:			
		TELEPHONE:			
		FAX:			
		VENDOR SIGNATURE:			
		<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>			
		SIGNATURE:			
		NAME/TITLE:			

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>