

REQUEST FOR QUOTATION <i>(THIS IS NOT AN ORDER)</i>		THIS RFD <input checked="" type="checkbox"/> IS <input type="checkbox"/> IS NOT A SMALL BUSINESS SET-ASIDE		PAGE OF PAGES 1 12	
1. REQUEST NO. N00173-04-Q-0057	2. DATE ISSUED 03/26/04	3. REQUISITION/PURCHASE REQUEST NO. 81-5010-04	4. CERT. FOR NAT. DEF. UNDER BDSA REG. 2 AND/OR DWS REG. 1	RATING DO-C9	
5a. ISSUED BY Supply Officer(Code 3410), Naval Research Laboratory, Washington, DC 20375			6. DELIVER BY <i>(Date)</i> 05/05/04		
5b. FOR INFORMATION CALL: <i>(NO COLLECT CALLS)</i>			7. DELIVERY <input checked="" type="checkbox"/> FOB DESTINATION <input type="checkbox"/> OTHER <i>(See Schedule)</i>		
NAME Cynthia V. Offutt Code 3411		TELEPHONE NUMBER		B. DESTINATION	
AREA CODE 202		NUMBER 767-3452		a. NAME OF CONSIGNEE Naval Research Laboratory	
B. TO:			b. STREET ADDRESS 4555 Overlook Ave., S.W.		
a. NAME All Quoters		a. COMPANY		c. CITY Washington	
c. STREET ADDRESS			d. STATE DC		
d. CITY		e. STATE		a. ZIP CODE 20375	
f. ZIP CODE					
10. PLEASE FURNISH QUOTATIONS TO THE ISSUING OFFICE IN BLOCK 5a ON OR BEFORE CLOSE OF BUSINESS <i>(Date)</i> 04/05/04		IMPORTANT: This is a request for information, and quotations furnished are not offers. If you are unable to quote, please so indicate on this form and return it to the address in Block 5a. This request does not commit the Government to pay any costs incurred in the preparation of the submission of this quotation or to contract for supplies or service. Supplies are of domestic origin unless otherwise indicated by quoter. Any representations and/or certifications attached to this Request for Quotation must be completed by the quoter.			

11. SCHEDULE *(include applicable Federal, State and local taxes)*

ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)
	See attached continuation sheet				

12. DISCOUNT FOR PROMPT PAYMENT	a. 10 CALENDAR DAYS (%)	b. 20 CALENDAR DAYS (%)	c. 30 CALENDAR DAYS (%)	d. CALENDAR DAYS	
				NUMBER	PERCENTAGE

NOTE: Additional provisions and representations are are not attached.

13. NAME AND ADDRESS OF QUOTER			14. SIGNATURE OF PERSON AUTHORIZED TO SIGN QUOTATION		15. DATE OF QUOTATION	
a. NAME OF QUOTER			16. SIGNER		b. TELEPHONE	
b. STREET ADDRESS					AREA CODE	
c. COUNTY			a. NAME <i>(Type or print)</i>		NUMBER	
d. CITY		e. STATE	f. ZIP CODE	b. TITLE <i>(Type or print)</i>		

CONTINUATION SHEET

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NAME OF OFFEROR CONTRACTOR

All Quotets

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
001	<p>Development package for OIS Clock Measurement System to include the following items 21-slot VME chassis specified by NRL Elma System 12 or equivalent VME CPU module set specified by NRL Concurrent Technologies vp 305/012 or equivalent Custom 21-slot J2 backplane Custom OIS measurement card Includes 4x Analog to Digital sampling modules Custom OIS clock distribution card The contractor shall take the NRL On-Orbit Intercomparison System (OIS) design and convert it into a laboratory measurement system. The contractor shall implement the logic functionality of the OIS in FPGAs that can be updated via programmable read only memory (ROM). The contractor shall expand the number of signal inputs from two to four on a single VME style U6 card. The input shall be a 14-bit analog to digital converter operating at 25 MHz. The signal isolation between channels shall be greater than 120 dB. The data generated by the four channels shall be placed in a FIFO on the VME card and accessible by the processor card via addressable memory access mode. All the logic shall run at 25 MHz. The data accumulation shall support up to one second of integration time. The VME card shall receive clock and trigger signals from the P2 backplane. The clock and trigger signals shall be low voltage differential signals. They must be isolated from all noise to -120 dB. All clocking and trigger signals shall be passed via the P2 backplane. The P2 backplane shall be custom designed by the contractor to provide low voltage differential clock and trigger signals to the VME cards. The backplane shall support up to eight cards. The trigger rate shall be programmable from 1000 Hz to 1 Hz using a free running 32 bit counter. The counter overflow signal shall be routed to the VME OIS cards. It shall be a low voltage differential signal. This signal is used to synchronize NCOs to be implemented in the OIS FPGAs. The contract shall procure and deliver Concurrent Technologies vp305/012 or equivalent processor VME card. The processor VME card shall support the Linux operating system. The processor VME card shall have at least 256 MBytes of memory and an interface to IDE hard discs and CD-ROM drive. The processor card shall have at least one 10base-T or 100base-T ethernet interface. The contractor shall deliver a rack mountable 21-slot VME chassis with at least a 500 watt power supply. It must be equivalent to an Elma System 12 chassis.</p>	1	EA		

The contractor shall deliver two OIS VME measurement cards as specified above. The contractor shall design, construct, and deliver a VME card clock distribution module. It shall provide all the timing requirements for the OIS VME measurement cards.

Note: NRL shall provide the contractor software to operate the hardware and a license to distribute the software with the design if the contractor chooses to market the design as a product.

Please Fax quotation to Cynthia V. Offutt @ 202-767-1708 or Fed Ex to: Naval Research Laboratory, 4555 Overlook Ave, S.W. Code 3411., Washington DC 20375.

Note: Any questions concerning this RFQ should be e-mailed to this account SolQnA@labmis.nrl.navy.mil five (5) days prior to the closing date in block 10 of the RFQ.

Please attach a Published Price List or Cost Breakdown to the Quotation.