

<b>REQUEST FOR QUOTATION (THIS IS NOT AN ORDER)</b>		THIS RFQ <input checked="" type="checkbox"/> IS <input type="checkbox"/> IS NOT A SMALL BUSINESS SET-ASIDE		PAGE OF PAGES 1   12
1. REQUEST NO. N00173-14-Q-0379	2. DATE ISSUED 09/02/2014	3. REQUISITION/PURCHASE REQUEST NO. 61-0754-14	4. CERT. FOR NAT. DEF. UNDER BDSA REG. 2 AND/OR DMS REG. 1 ▷	RATING
5a. ISSUED BY Supply Officer (Code 3410) NRL Washington DC 20375-5329			6. DELIVER BY (Date) TBD	
5b. FOR INFORMATION CALL (NO COLLECT CALLS)			7. DELIVERY <input checked="" type="checkbox"/> FOB DESTINATION <input type="checkbox"/> OTHER (See Schedule)	
NAME Cheryl Benthall		TELEPHONE NUMBER AREA CODE: 202 NUMBER: 767-0288		9. DESTINATION
8. TO:			a. NAME OF CONSIGNEE Naval Research Laboratory	
a. NAME All Quoters		b. COMPANY		b. STREET ADDRESS 4555 Overlook Ave SW Bldg 49
c. STREET ADDRESS			c. CITY Washington	
d. CITY		e. STATE DC	f. ZIP CODE 20375-5329	
10. PLEASE FURNISH QUOTATIONS TO THE ISSUING OFFICE IN BLOCK 5a ON OR BEFORE CLOSE OF BUSINESS (Date) 09/12/2014		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 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. STREET ADDRESS					a. NAME (Type or print)
c. COUNTY					AREA CODE
d. CITY	e. STATE	f. ZIP CODE	c. TITLE (Type or print)		NUMBER

STANDARD FORM 36 JULY 1966 GENERAL SERVICES ADMINISTRATION FED. PROC. REG. (41 CFR) 1-16.101		CONTINUATION SHEET	REF. NO. OF DOC. BEING CONT'D N00173-14-Q-0379	PAGE OF 2 12	
NAME OF OFFEROR CONTRACTOR					
All Quoters					
ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	<p>Infrared Fourier Vacuum Spectrometer VERTEX 70v Versatile FT-IR vacuum spectrometer VERTEX 70v for demanding applications in the analytical and research lab. All opticas are gold coated for highest optical throughput. The standard spectral range covers 8,000 to 350cm-1 The following for the operation required components are included in the basic system price:</p> <ul style="list-style-type: none"> <li>-MIR-KBr beamsplitter (T303/3)</li> <li>-Room temperature DLATGS detector (D301/B)</li> <li>-High power IR source</li> <li>-Aperture wheel with 12 positions</li> <li>-Validation wheel wiht 6 positions</li> <li>-Vacuum optics bench with oil-free vacuum pump</li> <li>-OPUS/IR software package</li> </ul> <p>Range extension packages are available to extend the measurement region from the very far- to the near-IR as well as the visible and ultraviolet regions (28,000-10cm-1). Standard resolution is 0.4cm-1 with an option for 0.16cm-1. A scan rate of more than 15spectra/sec at 8cm-1 spectral resolution is standard and can be upgraded to high rates of 58 spectra/sec at 16cm-1. For kinetic experiments in the microsec and nanosec range optionally the Step-Scan technique is availabe. Part No: V70V</p>	1	Ea		
0002	<p>External Measurement Channels Adaption set for connection of external accessories to the right side of the VERTEX 80v/70v. The set contains computer-controlled beamsteering mirror, KBr-window and window flange Part No: A171/8V</p>	1	Ea		

CONTINUATION SHEET

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NAME OF OFFEROR CONTRACTOR

All Quoters

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0003	Digital/Analog I/O option for control of external experiments via CAN-bus, external unit (2xDA 12Bit, +5V, 2xAD 8 bit, 0-5V), 4 digital inputs, 4 digital outputs Part No: E515/3	1	Ea		
0004	Trigger connector box input/output panel with BNC connectors for E517/Z provides connections of external experiments in "rapid scan and Step-Scan" TRS Mode Part No: E525/Z	1	Ea		
0005	Rapid scan option for more than 68 spectra/sec at a spectral resolution of 16cm-1. Includes extended scanning speed range up to 160kHz. Required: -D31x/B MCT or an alternative fast detector -F321 or F321-H optical filter -OPUS/3D evaluation software Part No: S129/Z	1	Ea		
0006	Switch mirror for emission port, back side (E2) Part No: W108/Z2	1	Ea		
0007	Purge connection for VERTEX 70v consisting of needle valve and vacuum tight lock valve mounted at optics bench rear side Part No: S317/V	1	Ea		
0008	Rotatable holder for polarizer Part No: A110	1	Ea		

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ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0009	MIR Polarizer (KRS-5), 25mm clear aperture outer diameter: 35mm Usable spectral range: 250#5,000cm-1 Extinction ratio:>300@1,000cm-1 Part No: F350	1	Ea		
0010	Optical filter, LWP<3,861cm-1 including mount Part No: F321-H	1	Ea		
0011	Pumping valve for N2 detectors-dewars Part No: D126	1	Ea		
0012	Analog signal output for the ac-coupled amplified detector signal and an analog input for another analog signal for DigiTect detectors Dxxx/B including cables and signal adaptation plate at the optics bench rear side of the VERTEX 70/80. Part No: E556/AU-V	1	Ea		
0013	Metal hose for D126 Part No: I10290	1	Ea		
0014	Connecting Signal Cable for external/ B detector Cable length - 3.7m Part No: I24217	1	Ea		
0015	Cable FLK 25P85 DTC ID Part No: I27757	1	Ea		
0016	OPUS/3D Software Package for 3D data processing, evaluation and visualization -broad variety of 2D and 3D views for 3D and 4D data, like: display 3D, false colour and contour plots, traces in variable size -IR and Raman images can be displayed in 2D and 3D on top of or next to the visible/video image of the sample -calculation and presentation of RGB images -correlation of 3D data with single component spectra -extraction of single files from 3D data and creation of 3D data from single files -principal component analysis (PCA) of 3D data; calculation of loadings and factors Part No: O/3D-N	1	Ea		

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ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0017	Data System, Convertible Minitower (CMT) "Intel" I5 processor, >3GHz, 4GB RAM 500GB HDU or better, 8xDVD/Lightscribe Drive, 21.5" TFT display, Ports: USB 2.0 (10X), PS/2(2), RJ-45 Network(2), RS232, VGA, DisplayPort, line in, line out, PCI (3), PCIex16(2), PCIex1 Operating System: Windows 7 Pro or better Part No: CS81/26+	1	Ea		
0018	MCT detector, (permanently evacuated) medium band Liquid N2 cooled Spectral Range: 12,000-600cm-1 D*>2x10**10cm Hz1/2W, Hold time: typically 8h Integrated amplifier and digitizing electronics Analog In-and Output Option for Pre- amplifier which allows the extraction of the analog detector signal and the input of an analog signal Part No: D316/BP-A	1	Ea		
0019	Photovoltaic MCT detector, BaF2-window Liquid N2 cooled Spectral range: 12,000-850cm-1 Element size: 1mm square D*>3x10**10cm Hz1/2W Hold time: typically 8h Integrated amplifier and digitization electronics Analog In- and Output option for pre-amplifier Part No: D317/B-A	1	Ea		
0020	A579-MA PEM kit, incl 42 kHz PEM, Demod, F350 Polarizer, mount for polarizer (A110) for purge systems only Part No: A579-MA	1	Ea		
0021	Modulators, DMA Lock-in amplifier with oscillator output Dual channel version Part No: S540	1	Ea		
0022	Step Scan Step Scan Option for Stepwise scanner movement (Step/Scan) for time resolved data acquisition; by use of the internal 24 bit ADC a temporal resolution down to 6usec and with an optional transient recorder down to 4/2.5nsec are achievable Part No: S510/Z	1	Ea		

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ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT		
0023	TRS Option, 14 bit 400/250MS/s single channel, 250MS/s dual channel Two channel version, operating software and cable kit. This option allows the monitoring of repetitive processes with a time resolution down to 2.5nsec in single and 4nsec in dual channel mode. Part No: S522-400X	1	Ea				
0024	Memory extension to 1 GSample for TRS-Board S522-400 Part No: 1013480	1	Ea				
0025	Full Service PLUS contract for the VERTEX 70v Includes service, repair, spares and travel costs (inland), one preventative maintenance service per year incl. the exchange of standard wearing parts, as well as preventive exchange of oil-free vacuum pump according to maintenance plan every 4 years plus update o fthe OPUSA software. Part No: S9202/8ZV	1	Ea				
0026	Automatic Shutters (2 pieces) permits sealing of the optics during sample change (factory installation only) F131-xWindows For VERTEX vacuum spectrometer series Part No: W160/8V  See Additional Specifications : Attachment -1 (Pg: 1-2)  "Brand Name or Equal"  If available please include a published price list or a cost breakdown and return the RFQ package to the following fax number (202)767-6678.  Any questions concerning this Request for Quotation (RFQ) must be e-mailed to SolQnA@nrl.navy.mil at least five (5) days before the closing date shown in block 10 on page 1 of RFQ.	1	Ea				