

1. REQUEST NO. N00173-14-Q-0442	2. DATE ISSUED 09/18/2014	3. REQUISITION/PURCHASE REQUEST NO. 71-3129-14	4. CERT. FOR NAT. DEF. UNDER BDSA REG. 2 AND/OR DMS REG. 1	RATING
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5a. ISSUED BY Supply Officer (Code 3410) NRL Washington DC 20375-5329	6. DELIVER BY (Date) TBD
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5b. FOR INFORMATION CALL (NO COLLECT CALLS)		7. DELIVERY	
NAME Cynthia V. Offutt	TELEPHONE NUMBER	<input checked="" type="checkbox"/> FOB DESTINATION <input type="checkbox"/> OTHER (See Schedule)	
	AREA CODE 202	NUMBER 767-3452	9. DESTINATION

8. TO:		a. NAME OF CONSIGNEE Naval Research Laboratory	
a. NAME All Quoters	b. COMPANY	b. STREET ADDRESS 4555 Overlook Ave S.W. Bldg 49	
c. STREET ADDRESS		c. CITY Washington	
d. CITY	e. STATE	f. ZIP CODE	d. STATE    e. ZIP CODE DC    20375-5329

10. PLEASE FURNISH QUOTATIONS TO THE ISSUING OFFICE IN BLOCK 5a ON OR BEFORE CLOSE OF BUSINESS (Date) 09/25/2014	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.
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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 sheets				

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					
c. COUNTY			a. NAME (Type or print)		AREA CODE
d. CITY	e. STATE	f. ZIP CODE	c. TITLE (Type or print)		NUMBER

CONTINUATION SHEET

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NAME OF OFFEROR CONTRACTOR

All Quoters

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	<p>Spectrometer V70V            Infrared Fourier Vacuum Spectrometer VERTEX 70 V            Versatile FT-IR vacuum spectrometer VERTEX 70V for demanding applications in the analytical and research laboratory. All optics 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:            -MIR-KBr beamsplitter (T303/3)            -Room temperature DLATGS detector (D301/B)            -High power IR source            -Aperture wheel with 12 positions            -Validation wheel with 6 positions            -Vacuum optics bench with oil-free vacuum pump            -OPUS/IR software package            Range extension packages are available to extend the measurement regions 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 higher rates of 58 spectra/sec to 16cm-1. For kinetic experiments in the microsec and nanosec range optionally the Step-Scan technique is available.</p>	1	EA		
0002	<p>High Resolution Option S125/Z            High resolution scanner option 0.16cm-1 for spectral resolution better than 0.16cm-1 (Must be ordered with initial system purchase.)            For VERTEX 70 spectrometer series.</p>	1	EA		
0003	<p>Detectors D316/BP            MCT detector, "PERMAVAC"; medium band            Liquid N2 cooled, permanently evacuated.            Spectral range: 12,000-600cm-1            D*: &gt;2x10**10cm Hz=/W            Hold time: typically 8h            Integrated amplifier and digitizing electronics (DigiTect)            Upgrade note: Activation of re-evacuation process requires M16 electronics (DigiTect)</p>	1	EA		
0004	<p>Beamsplitters S239/V            Interferometer cover with BMS-opening Interferometer cover with rotatational opening#for easy acces to the beamsplitter#and the storage position#for 2 BMS inside the interferometer compartment.</p>	1	EA		

CONTINUATION SHEET

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ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0005	<p>Only for#VERTEX 70v vacuum spectrometer.</p> <p>Alternative Detector Positions W105/Z            Unit for selecting an additional IR detector in position 2 (without detector, not compatible with W105/Z2) required for liquid N2 cooled detectors with hold time of 12h:            - D100-x/Z for VERTEX 70/80            - D100-M/8V for VERTEX 80v/70v</p>	1	EA		
0006	<p>Automatic shutters W160/8V            Automatic shutters (2 pieces)            permits sealing of the optics during sample change (factory installation only)            Recommended: F131-x Windows            For VERTEX vacuum spectrometer series</p>	1	EA		
0007	<p>Baseplates I18186            QuickLock baseplate w/o sample holder</p>	2	EA		
0008	<p>S580-US            Upgrade/Modification of a customer supplied standard accessory to Bruker QuickLock adaptation.            The modification includes assembly (incl. A191/Q), alignment and test of the accessory.            Requirements: the accessory is a standard unit (w/o automation features) which fits mechanically and optically into the sample compartment of the spectrometer. The accessory must be supplied for modification 4 weeks prior to the shipment of the spectrometer.            Bruker Optik reserves the right to refuse to provide the adaptation in case that extraordinary effort would be required for the adaptation. Utmost care will be taken not to damage the accessory during modification. However Bruker Optik refuse any liability for the accessory should such damage happen.</p>	2	EA		
0009	<p>OPUS Spectroscopy Software O/IR+            OPUS/IR, FT-IR Spectroscopy Software Package            OPUS is an integrated spectroscopy software for laboratory and process control.            -Configurable user interface and access to executable functions            -Automatic consistency-test of measurement parameters            -Multi Tasking: Measurement and data manipulation/evaluation at the same time            -Automated atmospheric correction for water vapor and CO2 in MIR without the need for reference spectra</p>	1	EA		

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ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0010	<p>OPUS delivers reliable results in a short time:                      -Single and repeated measurements, auto sampler support                      -Many interactive functions for comfortable data processing and evaluation, e.g.                      -Normalization, calculate derivative and average spectra, spectra subtraction                      -Spectrum calculator                      -Curve fit                      -Peak Pick                      -Spectra interpretation tool                      -Quick Compare spectra                      -Search spectra in a library, create your own libraries                      -Free starter library                      -Analyze peak areas and heights, quantitative analysis (Lambert-Beer's Law)                      -Automated multi step evaluation of spectra (MultiEvaluation)                      -Predefined print layouts, customizable print layouts                      -Conversion of files to different file formats (e.g. JCAMP)                      -Easy data export to other programs                      OPUS is a validated software and supports the validation of the spectrometer:                      -Automated OQ and PQ testing                      -Permanent instrument status indicator, online monitoring of system performance                      OPUS supports user during daily routine work;                      -Run, create and edit macros and VB scripts                      -Automated execution of repeated actions via calendar                      -Lab journal functionality                      -Online help                      -Multimedia FT-IR tutorial                      This OPUS software package is to be included in the standard delivery of the spectrometer system. Spectra viewer software is available free of charge.</p> <p>Data Systems CS81/26+                      Data System, Convertible Minitower (CMT)                      "Intel" I5 processor, &gt;3GHz, 4GB RAM                      1TB 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 (2)                      line in, line out, PCIe x16(2), PCIe x1(2).                      Operating System: Windows 7 Ultimate or better.                      (only available with order of spectrometer)</p>	1	EA		

**NAME OF OFFEROR CONTRACTOR**  
 All Quoters

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0011	Services with orders S950+ 1 Installation on-site included in the price of the system (including travel charges, inland) Note: interfacing to a customer's network requires an additional po	1	EA		
0012	Services and Support S881 Warranty Extension to 10 Years for Interferometer Covers replacement of defective parts of the scanning mechanism of the interferometer. The warranty starts with delivery of the spectrometer.	1	LO		
0013	Additional components FTIR_ACC GEMINI - MARS-2L/10M-SS Gas Cell MARS Series Long Path Gas Absorption Cell for FTIR gas analysis. MARS Series Gas Cell with Stainless Steel body and flanges. Mounting fixture and transfer optics for center-focus Bruker FTIR. Optics mounted on easily removable sub-assemblies. SS valves and fittings with 1/4" VCR fittings and flow tube. Comes with two 25mm x 4mm KBr windows and Viton o-rings. Gas cell will be mounted on a Bruker Quick Lock baseplate (P/N I18186) included with the cell.  Cell will include a custom vacuum plate and seal to fit to the Vertex 80v FTIR to avoid the interference of atmospheric gases.  Pathlength: 10 meters, fixed Volume: 2 liters Cell Body: stainless steel Cell Hardware: stainless steel Optical Coating: GemGold(tm), protected Temperature Range: ambient-180 Celsius with heater blanket and temperature controller options (NOT included) Pressure Range: vacuum to 15 p.s.i.  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		