

Vendors  
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## 66 -- BENCHTOP LOW VOLTAGE ELECTRON MICROSCOPE

### General Information

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### Contracting Office Address

Department of the Navy, Office of Naval Research, Naval Research Laboratory, 4555 Overlook Ave. S.W., Washington, DC, 20375, UNITED STATES

### Description

This is a combined synopsis/solicitation for commercial items prepared in accordance with the format in Federal Acquisition Regulations (FAR) Subpart 12.6, as supplemented with additional information included in this notice. This announcement constitutes the only solicitation; proposals are being requested and a written solicitation will not be issued. The solicitation, N00173-07-R- JR05, is issued as a Request for Proposal (RFP). The solicitation document and incorporated provisions and clauses are those in effect through FAC 2005-12 and DFARS Change Notice 20070802. The associated small business size standard is 500 employees. NRL has a

requirement for : CLIN 0001: Qty 1, Benchtop Low Voltage Electron Microscope. The system shall include the following specifications:

1. Electron Microscope: A Benchtop Low Voltage (5 kV) Electron Microscope with the following multiple imaging modes: Transmission Electron Microscopy (TEM), Scanning Electron Microscopy (SEM), Scanning Transmission Electron Microscopy (STEM). The instrument must also provide the capability of making electron diffraction patterns.
2. Microscope Architecture: The microscope architecture must be of the size (less than 1 cubic foot for the electron microscope itself) and weight (less than 200 lbs.) to permit installation practically anywhere and include benchtop dimensions, no cooling water, and no special electrical sources required (i.e., the instrument must run off standard electrical wall outlet-single phase 120V, 20 A).
3. Specimen Size & Handling: The instrument must be able to handle specimens up to 3 millimeters in size and in a manner that allows specimen exchange in a time of 3 minutes or less. The specimen must also be mountable on a motorized stage to permit specimen movement and positioning.
4. Electron Optics: The architecture of the electron optics must include an electron optical column coupled by a yttrium aluminum garnet (YAG) scintillator to light optics providing magnification greater than 200,000 times in the TEM mode. A field emission gun (Schottky cathode) must be provided as the electron source.
5. High Resolution Operation: The image resolution in all modes should be 3 nanometers or better.
6. High Contrast Imaging: Imaging in the TEM mode must provide high contrast (by low - 5 kV-voltage) of light element samples (such as polymers, biological samples) and thin films as well as size and shape information of nanoparticles (both light and heavy elements).
7. Light Optics: The system must include a cooled, 12 bit, digital CCD camera (2048 x 2048 pixels) for image viewing and acquisition including software.
8. Computer Control: The system must be controlled by a personal computer (PC) with the following minimum specifications: 3 GHz or greater Pentium 4 processor, at least 1 Gb RAM and single monitor (minimum 22-inch diagonal).
9. Vibration Isolation System: The system must also include a passive vibration isolation stand for the electron microscope.

CLIN 0002: Qty 1 JO, INSTALLATION AND TRAINING: A factory-trained technician must be present at NRL to assist in the initial start up of the system and to provide initial system calibration, testing and personnel training for at least two (2) days and 12 people. CLIN

0003: DOCUMENTATION: Qty 1 Set, The Contractor shall provide system documentation including operations and maintenance manuals. CLIN 0004:Qty 1 Ea, WARRANTY : A standard commercial base warranty of at least one year from date of system acceptance is required. A three (3) year extension warranty should be quoted as an option.

Delivery and acceptance is at NRL, Washington, D.C. 20375, FOB Destination. Delivery shall be no later than 90 days from date of award. The provision at 52.212-1, Instructions to Offerors-Commercial, applies to this acquisition.

The provision at FAR 52.212-2, Evaluation--Commercial Items is incorporated. The Government intends to award a contract resulting from this solicitation to that responsible offeror whose offer conforming to the solicitation will be the most advantageous to the Government, price and other factors considered. The following factors shall be used to evaluate the offers: (1) Technical capability of the item and services offered to meet the Government requirement, (2) Price, (3) Past Performance. Technical and Past Performance, when combined, are significantly more important than price

The Government will evaluate offers for award purposes by adding the total price for all options to the total price for the basic requirement. The Government may determine that an offer is unacceptable if the option prices are significantly unbalanced. Evaluation of options shall not

obligate the Government to exercise the option(s).

Offeror must complete the following electronic annual representations and certifications via the Online Representations and Certifications Application (ORCA) at <http://orca.bpn.gov> in conjunction with required registration in the Central Contractor Registration (CCR) database.: FAR 52.212-3 Offeror Representations and Certifications--Commercial Items and DFARs 252.212-7000 Offeror Representations and Certifications--Commercial Items. In accordance with paragraph (j) of FAR 52.212-3 if changes to the ORCA annual representations and certifications apply to this acquisition, the offeror must clearly identify the applicable paragraphs at (b) through (i) which the offeror has completed for the purpose of this solicitation only. Any changes provided by the offeror are applicable to this solicitation only, and do not result in an update to the representations and certifications posted on ORCA.

The clause at FAR 52.212-4, Contract Terms and Conditions-Commercial Items and FAR 52.212-5, Contract Terms and Conditions Required To Implement Statutes or Executive Orders--Commercial Items, applies to this acquisition. The additional clauses cited within this clause are applicable: 52.203-6, 52.219-4, 52-219-8, 52.219-28, 52.222-3, 52.222-19, 52.222-21, 52.222-26, 52.222-35, 52.222-36, 52.222-37, 52.222-39, 52.225-13, 52.232-33. The DFARs clause at 252.212-7001, Contract Terms and Conditions Required to Implement Statutes or Executive Orders Applicable to Defense Acquisitions of Commercial Items applies to this acquisition. The additional clauses cited within this clause are applicable: 52.203-3, 252.225-7012, 252.225-7036, 252.227-7015, 252.232-7003, 252.247-7023, 252.247-7024. The following additional FAR and DFARs clauses apply: 52.204-7 Central Contractor Registration, 252.204-7004 Alternate A.. The following additional FAR clause applies: 52.215-5. Facsimile proposals are authorized and may be forwarded to the contract specialist at (202) 767- 0667 (primary). In addition, proposals may be transmitted by e-mail to [jerry.riles@nrl.navy.mil](mailto:jerry.riles@nrl.navy.mil) (primary) in either Microsoft Word or pdf format. If facsimile proposals are authorized, contracting officers may request offeror(s) to provide the complete; original signed proposal at a later date.

All EIT supplies and services provided under any resultant contract must comply with the applicable accessibility standards issued by the Architectural and Transportation Barriers Compliance Board at 36 CFR part 1194 (see FAR Subpart 39.2). Electronic and information technology (EIT) is defined at FAR 2.101.

For those portions of the work under this contract performed at any NRL site, the contractor shall comply with the Requirements for On-Site Contractors dated 01 June 2007 which are hereby incorporated by reference. The full text is available at <http://heron.nrl.navy.mil/contracts/13onsite.htm>

Any resultant contract will be DO Rated under the Defense Priorities and Allocations System (DPAS). The Contract Specialist must receive any questions concerning the RFP no later than 5 business days before the response date of this solicitation. An original and 2 copies of the offeror proposal shall be received on or before the response date noted above, 4:00 P.M., local time at the NRL address above, Attn: Contracting Officer. The package should be marked with the solicitation number, due date and time.

The U.S. Postal Service continues to irradiate letters, flats, Express and Priority Mail with stamps for postage and other packages with stamps for postage destined to government agencies in the ZIP Code ranges 202 through 205. Due to potential delays in receiving mail, offerors are encouraged to use alternatives to the mail when submitting proposals.

Other business opportunities for NRL are available at our website <http://heron.nrl.navy.mil/contracts/rfplist.htm>

## **Point of Contact**

Jerry Riles, Contract Specialist, Phone 202-767-0667, Fax 202-767-6197, Email

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