



66 -- Focal Plane Arrays

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

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, N00173-06-R-DB03, is issued as a Request for Proposal (RFP). The solicitation document and incorporated provisions and clauses are those in effect through FAC 2005-08 and DFARS Change Notice 20051220. The associated small business size standard is 541710 and 500 employees. The Optical Science Division of the Naval Research Laboratory requires four small pitch, large

format, short wavelength infrared focal plane arrays for high-resolution daytime and low light level video sensors, and daytime hyper-spectral imaging sensors that it is building. CLIN 0001: One (1) Lot consisting of four (4) focal plane arrays. Specification for Short Wave Infrared Imaging Arrays; 1280 x 1024 Short Wave InfraRed (SWIR) focal plane array, Unit cell size: 20 microns square, Spectral Response: 0.9-1.7 micron spectral band, Average quantum efficiency: greater than 70 percent. Response operability: Class A: greater than 99.4 percent, Class B: greater than 99 percent, and Operable pixel defined to be R greater than 0.5 response mean. Response uniformity: less than 10 percent sigma/mean at 50 percent average well filling, Response Linearity: less than plus or minus 2 percent deviation from linear over 80 percent of the dynamic range in the high gain mode. Integration mode: Snapshot. Variable integration time: 30 microsec to 30 millisecc. Gain modes: High gain greater than 30 microVolt/electron, Greater than 70000 well capacity, Less than 50 electron noise floor at 240K operating temperature, Low gain greater than 400 nV/electron gain, Greater than 2.0E06 well capacity, and Less than 1200 electron noise floor at 240K operating temperature. Windowing: Windowing by row, with start and stop row selectable in 32 row increments. At least 32 non contiguous segments selectable. Frame rate: Class B units: 1280x1024 frame utilizing 4 outputs: at least 30 Hz, and Class A units: 1280 x 512 window utilizing 8 outputs, at least 110 Hz.

Output voltage swing: At least 2.3 volt starvation to saturation,

Pixel clock: Operation compatible with 11 MHz, and Serial interface control for the following functions: Read frame, Start integrate, Set integration time, Set integration mode, and Set output mode.

Packaging: Class B operability units: Two (2) each in 124 pin leadless chip carrier suitable for subsequent integration in TE cooled laboratory style dewar. And Two (2) each Class A operability units: Packaging suitable for long term laboratory storage and subsequent integration in tactical dewar assembly. The contractor shall provide specifications, operational documents, or interface control documents containing sufficient detail to allow design and fabrication of electronics to operate the arrays. The contractor shall supply 1 readout circuit of the same type used in the delivered focal planes in a 124 pin leadless chip carrier to support design and trouble-shooting of the control electronics. CLIN 0002, 80 Hours Engineering support: The contractor shall supply, as needed, up to 80 man-hours of engineering consultation in support of NRL's electronics development. Upon completion the contract will be modified to reflect the actual hours expended. Delivery and acceptance is at NRL, Washington, D.C. 20375, FOB Destination. The contractor shall deliver the spectrometer no later than one hundred eighty (150) days after contract 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: (i) Technical capability of the item offered to meet the Government's requirement; (ii) Past Performance; and (iii) Price. Technical capability and Past Performance, when combined, are more important than price. Offeror must complete and submit with its proposal, FAR 52.212-3 Offeror Representations and Certifications--Commercial Items and DFARs 252.212-7000 Offeror Representations and Certifications--Commercial Items, which are identified as B and available electronically at : <http://heron.nrl.navy.mil/contracts/repandcerts.htm>

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, 52.219-9, 52.219-25, 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, and 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, 252.205-7000, 252.219-7003, 252.225-7012, 252.225-7021, 252.227-7015, 252.227-7037, 252.232-7003, 252.243-7002, 252.247-7023, and 252.247-7024 The following additional FAR and DFARs clauses apply: 52.204-7 Central Contractor Registration, 252.204-7004 Alternate A. and 252.211-7003 - Item Identification And Valuation (APR 2005). The following additional FAR clause applies: 52.214-31. Facsimile proposals are authorized and may be forwarded to the contract specialist point of contact provided below. 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 10 business days before the response date of this solicitation. An original and two 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. All responsible sources may submit a bid, proposal, or quotation which shall be considered by the agency. Other business opportunities for NRL are available at our website <http://heron.nrl.navy.mil/contracts/rfplist.htm>

Point of Contact

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Place of Performance

Address: Naval Research Laboratory, Washington, DC
Postal Code: 20375

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