



Kilohertz repetition-rate Titanium-doped sapphire femtosecond Laser system

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Office: Office of Naval Research

Location: Naval Research Laboratory

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Combined Synopsis/Solicitation

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66 -- Instruments & laboratory equipment

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334 -- Computer and Electronic Product Manufacturing/334413 -- Semiconductor and Related Device Manufacturing

Synopsis:

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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, N00173-09-R-DB03 is issued as a Request for Proposal (RFP). The solicitation document and

incorporated provisions and clauses are those in effect through FAC 2005-30 and DFARS Change Notice 20090115. The

associated small business size standard is 500. NRL

has a requirement for a CLIN 0001: (Qty 1. Ea) a Kilohertz repetition-rate

Titanium-doped sapphire femtosecond Laser system (KTFL). Specifications and required features of the KTFL

are as follows: center wavelength

= 800 nanometers (nm); repetition rate = 1 kilohertz (kHz); minimum nanosecond

pre-pulse contrast ratio = 1000:1; maximum pulse duration = 40

femtoseconds; maximum

beam quality parameter, M-squared = 1.5; minimum pulse energy at 1 kHz

repetition rate = 6 millijoules (mJ); maximum rms energy variation at 800 nm =

0.75 percent over 8 hours; maximum rms third harmonic energy variation = 0.5

percent over 4 hours; amplifier stages shall include a

non-cryogenically-cooled, regenerative amplifier, plus one single-pass

amplifier; the system shall be upgradeable to 12 mJ with the addition of a

non-cryogenically-cooled modular amplifier stage; all pump lasers shall be

diode-pumped or diode-based (flashlamp-pumped pump lasers are specifically

excluded); the oscillator shall have a maximum power fluctuation of 0.5 percent

between 10 Hertz and 10 megahertz, and shall be temperature-stabilized for

long-term stability; the oscillator and its pump laser shall be integrated in a

single enclosure less than 1.2 cubic feet in volume; the entire system must be

able to fit onto a 5 foot by 6 foot breadboard; the oscillator, regenerative

amplifier, single-pass amplifier, and all pump lasers shall be manufactured by

a single vendor; laser installation, including testing and verification of

specified performance, should be provided as part of delivery; on-site service

must be available throughout expected operational lifetime of system (at least

ten years); the oscillator shall be covered by a minimum warranty period of two

years; the amplifier stages and pump lasers shall be covered for a minimum

warranty period of one year.

Delivery

and acceptance is at NRL, Washington,

D.C. 20375, FOB Destination. Delivery shall be no later than 45 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 offered, (2) Price, and (3) Past performance.

Technical capability of the item offered and past performance, when combined,

are more important than price.

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, 52.203-13, 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, 52.222-50, 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, 252.225-7021, 252.227-7015, 252.227-7037, 252.232-7003, 252.243-7002, 252.247-7023, 252.247-7024 .The following additional FAR and DFARS clauses apply: 52.204-7 Central Contractor Registration; DFARS 252.204-7004 Alternate A.; DFARS 252.211-7003 fill in none in (c)(1)(ii) and (c)(1)(iii). and DFARS 252-211-7007 fill in none

The

following additional FAR clause applies: 52.215-5. Facsimile proposals are authorized and may be forwarded to the contract specialist at (202) 767-6197 In addition, proposals may be transmitted by e-mail to Dan.Brinkworth @nrl.navy.mil 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. 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>

Contracting Office Address:

4555 Overlook Ave. S.W.
Washington, District of Columbia 20375

Place of Performance:

Contractor's Facility

United States

Primary Point of Contact.:

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Opportunity History

- Original Synopsis
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