

Posting Date: March 24, 2021

Closing Date: April 5, 2020 11:30 a.m. ET

Reference Number: 21-021331

To: NCI Bid Board

From: Tanika Crossen
NCI P-ARC Program Analyst
crossent@nih.gov

Subject: NCI Bid Board Posting – Argo-WP spectral fluorescent pattern reference microplate for high content confocal imaging systems

The NCI High-Throughput Imaging Facility (HiTIF) within the Laboratory of Receptor Biology and Gene Expression (LRBGE) requests to purchase an Argolight Argo-WP calibration microplate designed to be used with fluorescence or multimode microplate readers for high-content screening (HCS), high-content analysis (HCA) and high-throughput screening (HTS). The HiTIF requires a calibration microplate for troubleshooting, proactive maintenance, and preventive maintenance of its Yokogawa high-content screening instruments, the CV7000 and the CV8000S. This is to verify and validate that these imaging systems are operating within normal operating parameters on a plate by plate and on a daily basis, and to ensure the scientific validity of experiments being conducted.

HiTIF is available to all CCR investigators who require advanced light microscopy instrumentation and expert guidance in using it. The facility is built around automated imaging equipment for imaging of thousands of samples while keeping them alive and then generating for each sample a high-resolution image in up to four different fluorescent channels. We currently use two High-throughput Microscopy Systems (Yogawa CV7000S and Yokogawa CV8000) to capture digital images in the facility. These systems are capable of generating 200 gigabytes of image data per working day.

The Argo-WP acts as a standard and provides reference fluorescent patterns with stable and precise features for all fields of view for each microplate well, and over the entire area of the imageable microplate. After image acquisition with a fluorescence-based imaging system, a software is used to compare the image of the pattern to its features. The resulting difference is the bias introduced by the system. The bias is monitored in the quality control software, Daybook. The Argo-WP is used for troubleshooting, proactive maintenance, preventive maintenance or even predictive maintenance. With the Argo-WP the imager functionalities can be evaluated. It is used to identify any unusual decreases of fluorescence intensities/irregular patterns at regular intervals that would trigger a technical intervention. The Argo-WP will be used as part of the daily operational qualification (IQ/OQ) protocol as well as performance qualification (PQ) protocol.

Sole Source Justification:

Because this is a unique hardware and software product that is only offered by SAS Waypoint, direct comparison is not possible. As experts in the field of high-throughput microscopy and automated image analysis, we are aware of no other provide for the Argolight Argo-WP calibration microplates and Daybook 3 software. SAS Waypoint has developed and copyright protected the Daybook 3 software. SAS Waypoint is the only provider of trained software engineers for assistance and of software upgrades. We have performed numerous internet search engine inquires, and these provided no suitable alternative to SAS Waypoint for the Argolight Argo-WP calibration microplates and Daybook 3 software that are specific for High Content Screening/High through Screening Imaging systems.

Attached Documents:

SF18

Statement of Work

FAR Clause 52.204-24 Representation Regarding Certain Telecommunications and Video Surveillance Services or Equipment.

FAR Clause 52.213-4 Simplified Acquisitions Terms and Conditions (AUG 2019) is applicable and available in full text upon request.

| | | |
|---|--|-------------------------|
| REQUEST FOR QUOTATION (THIS IS NOT AN ORDER) | THIS RFQ <input type="checkbox"/> IS <input checked="" type="checkbox"/> IS NOT A SMALL BUSINESS SET-ASIDE | PAGE OF PAGES 1 OF 1 |
|---|--|-------------------------|

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|-----------------------------|-----------------------------|-------------------------------------|--|--------|
| 1. REQUEST NO. 21-021331 | 2. DATE ISSUED 3/24/2021 | 3. REQUISITION/PURCHASE REQUEST NO. | 4. CERT. FOR NAT. DEF. UNDER BDSA REG. 2 AND/OR DMS REG. 1 | RATING |
|-----------------------------|-----------------------------|-------------------------------------|--|--------|

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| 5a. ISSUED BY NCI CCR Purchasing Administrative Resource Center | 6. DELIVER BY (Date) |
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| | | |
|---|--|----------------|
| 5b. FOR INFORMATION CALL (NO COLLECT CALLS) | 7. DELIVERY <input checked="" type="checkbox"/> FOB DESTINATION <input type="checkbox"/> OTHER (See Schedule) | 9. DESTINATION |
|---|--|----------------|

| | | |
|---|--|----------------------------------|
| NAME Tanika Crossen, Program Analyst | TELEPHONE NUMBER AREA CODE NUMBER 301 480-0602 | a. NAME OF CONSIGNEE NIH, NCI |
|---|--|----------------------------------|

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|-------------------|------------------------|-------------------|
| 8. TO: a. NAME | b. COMPANY Waypoint | b. STREET ADDRESS |
|-------------------|------------------------|-------------------|

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| c. STREET ADDRESS | c. CITY Bethesda |
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|----------|-----------------|--------------|-----------------|----------------------|
| d.. CITY | e.. STATE MD | f.. ZIP CODE | d.. STATE MD | e. ZIP CODE 20892 |
|----------|-----------------|--------------|-----------------|----------------------|

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| 10. PLEASE FURNISH QUOTATIONS TO THE ISSUING OFFICE IN BLOCK 5a ON OR BEFORE CLOSE OF BUSINESS (Date) 4/5/2021 12:00 EST | IMPORTANT: This is a request for information, and quotations furnished are not offers. If you are unable to quote, please 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 services. Supplies are of domestic origin unless otherwise indicated by quoter. Any representations and/or certifications attached to this Request for Quotations 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) |
|-----------------|--|-----------------|-------------|-------------------|---------------|
| | Argo-WP spectral fluorescent pattern reference microplate for high content confocal imaging systems Notice of Intent: If submitting a capability statement, please e-mail only 1 copy of the technical capability statement to Tanika Crossen @ crossent.mail.nih.gov See attached statement of work This will be awarded as a Firm-Fixed Price Contract. | | | | |

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|---------------------------------|-------------------------|-------------------------|-------------------------|--|
| 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.

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| 13. NAME AND ADDRESS OF QUOTER | 14. SIGNATURE OF PERSON AUTHORIZED TO SIGN QUOTATION | 15. DATE OF QUOTATION |
|--------------------------------|--|-----------------------|

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| a. NAME OF QUOTER | 16. SIGNER | |
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| b. STREET ADDRESS | a. NAME (Type or print) | b. TELEPHONE AREA CODE |
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| c. COUNTY | e. STATE | f. ZIP CODE | c. TITLE (Type or print) | NUMBER |
|-----------|----------|-------------|--------------------------|--------|

STATEMENT OF NEED (SON)

1.0 TITLE

Argo-WP spectral fluorescent pattern reference microplate for high content confocal imaging systems.

2.0 BACKGROUND

The NCI High-Throughput Imaging Facility (HiTIF) within the Laboratory of Receptor Biology and Gene Expression (LRBGE) requests to purchase an Argolight Argo-WP calibration microplate designed to be used with fluorescence or multimode microplate readers for high-content screening (HCS), high-content analysis (HCA) and high-throughput screening (HTS). The HiTIF requires a calibration microplate for troubleshooting, proactive maintenance, and preventive maintenance of its Yokogawa high-content screening instruments, the CV7000 and the CV8000S. This is to verify and validate that these imaging systems are operating within normal operating parameters on a plate by plate and on a daily basis, and to ensure the scientific validity of experiments being conducted.

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3.0 TYPE OF ORDER

This is a Firm Fixed-Price Purchase Order.

4.0 SPECIAL ORDER REQUIREMENTS

The contractor shall perform an initial setup and calibration of the Argo-WP on two (2), government owned Cell Voyager Imaging Systems, the CV7000 and CV8000S. The contractor shall install two Daybook 3 software suites on the Cell Voyager Imaging Systems workstations (CV7000 and CV8000S) and verify system compatibility with the existing operating system and Cell Voyager software suite.

4.1 PRODUCT FEATURES/SALIENT CHARACTERISTICS

STATEMENT OF NEED (SON)

The following product features/characteristics are required for this requirement:

- The calibration plate shall be compatible with the two, government owned Cell Voyager Imaging Systems (CV7000 and CV8000s) hardware and software.
- The calibration plate shall have an unlimited shelf life at ambient room temperature, be storable at ambient room temperature and be made of aluminum with 4 glass wells.
- The dimensions of the calibration plate shall be the standard microplate and shall fit onto the Yokogawa 7000 and Yokogawa 8000S sample microplate platform.
- The microplate shall be used with any excitation wavelength from 350 nm down to 650 nm. The emitted fluorescence shall start about 15-20 nm after excitation and end around 800 nm.
- The calibration microplate shall consist of 4 glass wells to measure distances between objects, field depth and/or fluorescent intensity.
 - A well shall consist having a matrix of 35×35 rings, separated by $50 \mu\text{m}$, with a cross in its center, on a total field of $1750 \times 1750 \mu\text{m}^2$.
 - A well shall consist having a grid with a size of $1000 \times 1000 \mu\text{m}^2$ and a step of $40 \mu\text{m}$.
 - A well shall consist having empty cylinders embedded at different depths, like two crossing stairs, with a step of $2.5 \mu\text{m}$ and surrounded by four $55 \mu\text{m}$ -long pillars.
 - A well shall consist of two layers of sixteen $100 \mu\text{m}$ -wide squares, on top of each other, having different fluorescence intensity levels following a linear evolution, organized in a 4×4 matrix.
- The software suite shall be integrated with the pre-existing Cell Voyager Imaging software suite to automatically analyze images, extract and graphically display relevant quality control data.
- The software suite shall generate quality control reports on the fly and flag out of tolerance thresholds.
- The software suite shall allow user defined quality control threshold parameters.

4.2 DELIVERY / INSTALLATION

Item shall be delivered within 3 weeks of purchase order award.

The contractor shall provide product, software and software service in accordance with the manufacturer's latest established service procedures, to include telephone access to technical support for use of program software and troubleshooting of the operating systems, at no additional cost to the Government. The contractor shall receive advance approval for the installation of all software updates and revisions from the Government. Defective software shall be replaced at no additional cost to the government.

Service shall be performed at the following location:

NIH, NCI
41 Medlars Dr
Bldg 41, Rm C508
Bethesda, MD 20892

STATEMENT OF NEED (SON)

Contact: Gianluca Pegoraro, Ph.D, 240-760-6696
gianluca.pegoraro@nih.gov

4.3 TRAINING

The contractor shall provide software training to

5.0 PAYMENT

Payment shall be made 30 days after acquisition contract award. Payment authorization requires submission and approval of invoices to the COR and NIH OFM, in accordance with the payment provisions listed below:

The following clause is applicable to all Purchase Orders, Task or Delivery Orders, and Blanket Purchase Agreement (BPA) Calls: PROMPT PAYMENT (JUL 2013) FAR 52.232-25. Highlights of this clause and NIH implementation requirements follow:

I INVOICE REQUIREMENTS

- A. An invoice is the Contractor's bill or written request for payment under the contract for supplies delivered or services performed. A proper invoice is an "Original" which must include the items listed in subdivisions 1 through 12, below, in addition to the requirements of FAR 32.9. If the invoice does not comply with these requirements, the Contractor will be notified of the defect within 7 days after the date the designated billing office received the invoice (3 days for meat, meat food products, or fish, and 5 days for perishable agricultural commodities, dairy products, edible fats or oils) with a statement of the reasons why it is not a proper invoice. (See exceptions under II., below.) Untimely notification will be taken into account in the computation of any interest penalty owed the Contractor.
1. Vendor/Contractor: Name, Address, Point of Contact for the invoice (Name, title, telephone number, e-mail and mailing address of point of contact).
 2. Remit-to address (Name and complete mailing address to send payment).
 3. Remittance name must match exactly with name on original order/contract. If the Remittance name differs from the Legal Business Name, then both names must appear on the invoice.
 4. Invoice date.
 5. Unique invoice #s for all invoices per vendor regardless of site.
 6. NBS document number formats must be included for awards created in the NBS: Contract Number; Purchase Order Number; Task or Delivery Order Number and Source Award Number (e.g., Indefinite Delivery Contract number; General Services Administration number); or, BPA Call Number and BPA Parent Award Number.
 7. Data Universal Numbering System (DUNS) or DUNS + 4 as registered in the Central Contractor Registration (CCR).
 8. Federal Taxpayer Identification Number (TIN). In those exceptional cases where a contractor does not have a DUNS number or TIN, a Vendor Identification Number (VIN) must be referenced on the invoice. The VIN is the number that appears after the contractor's name on the face page of the award document.
 9. Identify that payment is to be made using a three-way match.

STATEMENT OF NEED (SON)

10. Description of supplies/services that match the description on the award, by line billed.*
11. Freight or delivery charge must be billed as shown on the award. If it is included in the item price do not bill it separately. If identified in the award as a separate line item, it must be billed separately.
12. Quantity, Unit of Measure, Unit Price, Extended Price of supplies delivered or services performed, as applicable, and that match the line items specified in the award.*

* NOTE: If your invoice must differ from the line items on the award, please contact the Contracting Officer before submitting the invoice. A modification to the order or contract may be needed before the invoice can be submitted and paid.

- B. Shipping costs will be reimbursed only if authorized by the Contract/Purchase Order. If authorized, shipping costs must be itemized. Where shipping costs exceed \$100, the invoice must be supported by a bill of lading or a paid carrier's receipt.
- C. Mail an original and 1 copy of the itemized invoice to:

National Institutes of Health
Office of Financial Management, Commercial Accounts
2115 East Jefferson Street, Room 4B-432, MSC 8500
Bethesda, MD 20892-8500

For inquiries regarding payment call: (301) 496-6088

In order to facilitate the prompt payment of invoices, it is recommended that the vendor submit a photocopy of the invoice to the "Consignee" designated for the acquisition in blocks 6A – 6E of the face page of the Order/Award document.

II. INVOICE PAYMENT

- A. Except as indicated in paragraph B., below, the due date for making invoice payments by the designated payment office shall be the later of the following two events:
 1. The 30th day after the designated billing office has received a proper invoice.
 2. The 30th day after Government acceptance of supplies delivered or services performed.
- B. The due date for making invoice payments for meat and meat food products, perishable agricultural commodities, dairy products, and edible fats or oils, shall be in accordance with the Prompt Payment Act, as amended.

III. INTEREST PENALTIES

- A. An interest penalty shall be paid automatically, if payment is not made by the due date and the conditions listed below are met, if applicable.
 1. A proper invoice was received by the designated billing office.
 2. A receiving report or other Government documentation authorizing payment was processed and there was no disagreement over quantity, quality, or contractor

STATEMENT OF NEED (SON)

compliance with a term or condition.

3. In the case of a final invoice for any balance of funds due the contractor for supplies delivered or services performed, the amount was not subject to further settlement actions between the Government and the Contractor.

B. Determination of interest and penalties due will be made in accordance with the provisions of the Prompt Payment Act, as amended, the Contract Disputes Act, and regulations issued by the Office of Management and Budget.

IV. PROVIDING ACCELERATED PAYMENT TO SMALL BUSINESS SUBCONTRACTORS, FAR 52.232-40 (DEC 2013)

- a) Upon receipt of accelerated payments from the Government, the Contractor shall make accelerated payments to its small business subcontractors under this contract, to the maximum extent practicable and prior to when such payment is otherwise required under the applicable contract or subcontract, after receipt of a proper invoice and all other required documentation from the small business subcontractor.
- b) The acceleration of payments under this clause does not provide any new rights under the prompt Payment Act.

Include the substance of this clause, include this paragraph c, in all subcontracts with small business concerns, including subcontracts with small business concerns for the acquisition of commercial items.