

Posting Date: February 22, 2024

Closing Date: March 3, 2024 11:30 a.m.

ET Reference Number: 24-019112

To: NCI Bid Board

From: Viviane Rivera  
NCI CCR P-ARC  
viviane.rivera@nih.gov

Subject: NCI Bid Board Posting – Laboratory Equipment

The goal of the Molecular Imaging Branch (MIB) is to develop targeted imaging methods that accelerate the development of cancer therapies. The MIB is focused on the development and translation of in vivo molecular imaging agents for early detection, monitoring and therapy. Given the high risks and high costs of conducting research in this field, the MIB is well positioned to address the challenges that the field of molecular imaging faces. The Molecular Imaging Clinic conducts early phase trials of molecular imaging agents. MIB investigate diagnostic imaging agents that employ nuclear, optical or magnetic resonance reporters in human subjects.

The primary objective is to buy a new line of high precision time to digital converter instruments to achieve special high precision time to digital converter electronics are required to sample the gamma emission pulses emitted from the detectors.

The National Cancer Institute plans to purchase this high precision equipment from CAEN Technologies Inc. This is not a request for competitive quotation. However, if any interested party believes it can meet the attached requirements, it may submit a statement of capabilities. The capability statement must be in writing and must contain information and material in sufficient detail to allow NCI to determine is the party can fully meet this requirement. The capability statement must be received in the contracting office by 11:30 AM on March 3, 2024. ET. A determination by the Government not to compete this requirement based upon responses to this notice is solely within the discretion of the Government. Information received will be considered solely for the purpose of determining whether to conduct a competitive procurement.

Sole Source Justification:

CAEN technologies are the only company who has a license to package and sell the high precision time measurement chip developed by CERN, the European Organization for Nuclear Research.

Attached Documents:

SF18  
Statement of Need  
52.204-24 Representation Regarding Certain Telecommunications and Video Surveillance Services or Equipment.  
FAR Clause 52.213-4 Simplified Acquisitions Terms and Conditions (JAN 2014) is applicable and available in full text upon request

<b>REQUEST FOR QUOTATION (THIS IS NOT AN ORDER)</b>	THIS RFQ <input type="checkbox"/> IS <input type="checkbox"/> IS NOT A SMALL BUSINESS SET-ASIDE	PAGE OF PAGES 1 1
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1. REQUEST NO. <b>POTS 24-019112</b>	2. DATE ISSUED <b>2/22/2024</b>	3. REQUISITION/PURCHASE REQUEST NO. <b>POTS 24-019112</b>	4. CERT. FOR NAT. DEF. UNDER BDSA REG. 2 AND/OR DMS REG. 1 <input type="checkbox"/>	RATING
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5a. ISSUED BY	6. DELIVER BY (Date) <b>6/3/2024</b>
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5b. FOR INFORMATION CALL (NO COLLECT CALLS)	
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NAME <b>Viviane Rivera, Purchasing Agent</b>	TELEPHONE NUMBER AREA CODE: <b>240</b> NUMBER: <b>760-7125</b>	7. DELIVERY <input type="checkbox"/> FOB DESTINATION <input checked="" type="checkbox"/> OTHER (See Schedule)
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8. TO:	9. DESTINATION <b>STEPHEN ADLER 240-858-3056</b>
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a. NAME	b. COMPANY <b>CAEN Technologies Inc.</b>	b. STREET ADDRESS <b>9000 Rockville Pike Bldg. 10,Rm B3B51</b>
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c. STREET ADDRESS <b>1 Edgewater Street - Suite 101</b>	c. CITY <b>Bethesda</b>
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d. CITY <b>Staten Island</b>	e. STATE <b>NY</b>	f. ZIP CODE <b>10305</b>	d. STATE <b>MD</b>	e. ZIP CODE <b>20892</b>
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10. PLEASE FURNISH QUOTATIONS TO THE ISSUING OFFICE IN BLOCK 5a ON OR BEFORE CLOSE OF BUSINESS (Date) <b>06/03/2024</b>	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)
1	WDT5203XAAAA DT5203 - Desktop 64 Channel pico-TDC unit for FERS-5200	2			0.00
2	WA5255XAAAA A5255 - 17x2 pin 2.54 mm pitch Quad Connector for A5203/DT5203	2			
3	WSHIPPINGXXX Estimated Shipping Charges - UPS Ground, Prepay & Add	1			
<p>Notice of Intent: If submitting a capability statement, please e-mail only 1 copy of the technical capability statement to: Viviane Rivera @ viviane.rivera@nih.gov.</p> <p>See attached statement of need</p> <p>This will be a Firm-Fixed Price Contract.</p>					

12. DISCOUNT FOR PROMPT PAYMENT <input type="checkbox"/>	10 CALENDAR DAYS (%)	b. 20 CALENDAR DAYS (%)	c. 30 CALENDAR DAYS (%)	d. CALENDAR DAYS	
			0.00	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	

# STATEMENT OF NEED (SON)

**Instructions: This document should be used for the acquisition of PRODUCTS. Instructions for completion are in red, and should be excluded in the completed document.**

## 1.0 TITLE

Pico-TDC order

## 2.0 BACKGROUND

The Molecular Imaging Branch of the National Cancer Institute of the National Institutes of Health governed by the Health and Human Services department is involved in a project researching the capabilities of direct Positron Emission Tomography detector technology. Key to this research project is building gamma detectors which have extreme precision timing characteristics. To achieve this, special high precision time to digital converter electronics are required to sample the gamma emission pulses emitted from the detectors. This purchase order is to buy a new line of high precision time to digital converter instruments from CAEN technologies who recently offered this new state of the art instrument.

## 3.0 TYPE OF ORDER

This is a Firm Fixed-Price Purchase Order.

## 4.0 SPECIAL ORDER REQUIREMENTS

### 4.1 PRODUCT FEATURES/SALIENT CHARACTERISTICS

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

- 64/128-ch TDC unit for **high-resolution timing** applications housing the CERN picoTDC
  - High channel readout required for the 256 channel Micro-channel plate photomultiplier detector used for the dPET detector module design.
- Timing resolution: **LSB = 3.125 ps, RMS typ. ~ 7 ps**
  - Sub 10 picosecond (ps) time sampling precision required to meet the design specifications of the dPET detector module.
- TDC dynamic range: **up to 26 bit (~ 210  $\mu$ s). Extendable to 56 bit in the FPGA**
  - Extended time sampling required for high gamma rate environments.
- Acquisition of **leading/trailing edge Time of Arrival (ToA), or leading edge ToA plus Time over Threshold (ToT)** of the input signals
  - Time of Arrival plus Time over Threshold measurements are required for one to measure both the time and energy of the gamma ray deposition in the dPET gamma detector.
- **Scalability and easy-synch:** up to 128 cards (**8192/16384 channels**) can be managed and synchronized by a single **DT5215** Concentrator Board, thanks to the optical **TDlink**
  - Multiple pico-tdc units are required to readout the full channel count of the final dPET detector module design. Timing synchronization is critical for the success of the project.

## STATEMENT OF NEED (SON)

### 4.2 DELIVERY / INSTALLATION

Deliver to:

c/o Stephen Adler  
9000 Rockville Pike  
Clinical Center Building 10, Room B3B51  
Bethesda MD, 20892.

There is no installation required for this product.

### 4.3 TRAINING

N/A

### 5.0 PAYMENT

Payment shall be made **in full upon receipt of the instrument and support equipment.** 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.

## STATEMENT OF NEED (SON)

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.
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

## STATEMENT OF NEED (SON)

- 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 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.