

Posting Date: August 8, 2022

Closing Date: August 18, 2022 11:30 a.m. ET

Reference Number: 22-040056

To: NCI Bid Board

From: Sharon Coles-Calloway
NCI DCEG Purchasing Agent
coless@mail.nih.gov

Subject: NCI Bid Board Posting – Fee-for-service contract for data processing for adductomic data in a nested case-control study in Shanghai Women’s Health Study (CAS: 02342)

The National Cancer Institute Division of Cancer Epidemiology and Genetics Occupational and Environmental Epidemiology Branch (OEEB) conducts studies in the United States and abroad to identify and evaluate environmental and workplace exposures that may be associated with cancer risk. OEEB's mission is to combine epidemiology, quantitative exposure assessment, and molecular components into multi-disciplinary studies to provide insight into cancer etiology, chemical carcinogenesis, and mechanisms of action. Our main research areas include Industrial and Occupational Exposures, Environmental Exposures, and Exposure Assessment Methods.

OEEB will support adductomic data extraction and process normalization of data for 624 samples generated by an untargeted HSA-adductomics assay for a nested case-control lung cancer study in Shanghai Women’s Health Study. The Government will benefit from this effort to assess the association between adductomic profiles and future risk of lung cancer to provide insight into the etiology of lung cancer.

The National Cancer Institute plans to purchase data processing for albumin adductomics data in a nested case-control study in Shanghai Women’s Health Study from the University of California, Berkeley, Berkeley, CA. 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 if the party can fully meet this requirement. The capability statement must be received in the contracting office by 11:30 AM on August 18, 2022, 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:

The Center for Exposure Biology at the University of California, Berkeley is the only provider able to provide this service. The Center for Exposure Biology in University of California, Berkeley has several projects that are developing highly sensitive 2 and accurate biomarkers using protein adducts and other biological

response indicator of external environmental stress and have developed a unique bioinformatic method to extract data from raw albumin adduct data and normalize it for subsequent lung cancer risk analysis. It is critical that this method be used for the analysis of these data. There is no other method available for these specific types of data. Further, other NCI data related to lung cancer risk have been extracted by this same method and it is critical for scientific comparability that the same method is used for the data in the current study. The Berkeley investigators are knowledgeable about all aspects required for the completion of this contract and have unique knowledge and experience that is necessary to carry out the terms of this procurement.

Attached Documents:

SF18

Statement of Work

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

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

REQUEST FOR QUOTATION (THIS IS NOT AN ORDER)		THIS RFQ <input type="checkbox"/> IS <input type="checkbox"/> IS NOT A SMALL BUSINESS SET-ASIDE		PAGE OF PAGES
1. REQUEST NO.	2. DATE ISSUED	3. REQUISITION/PURCHASE REQUEST NO.	4. CERT. FOR NAT. DEF. UNDER BDSA REG. 2 AND/OR DMS REG. 1	RATING
5a. ISSUED BY			6. DELIVER BY (Date)	
5b. FOR INFORMATION CALL (NO COLLECT CALLS)			7. DELIVERY	
NAME		TELEPHONE NUMBER		<input type="checkbox"/> FOB DESTINATION <input type="checkbox"/> OTHER (See Schedule)
		AREA CODE	NUMBER	9. DESTINATION
8. TO:			a. NAME OF CONSIGNEE	
a. NAME		b. COMPANY		b. STREET ADDRESS
c. STREET ADDRESS			c. CITY	
d.. CITY		e.. STATE	f.. ZIP CODE	d.. STATE e. ZIP CODE
10. PLEASE FURNISH QUOTATIONS TO THE ISSUING OFFICE IN BLOCK 5a ON OR BEFORE CLOSE OF BUSINESS (Date)		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)

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.

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		c. TITLE (Type or print)		NUMBER	
		e. STATE f. ZIP CODE			

STATEMENT OF WORK (SOW)

1.0 TITLE

Fee-for-service data processing for albumin adductomics data in a nested case-control study in Shanghai Women's Health Study (CAS: 02342)

2.0 BACKGROUND

Lung cancer is a global health burden that accounted for an estimated 1.8 million deaths worldwide in 2020. Even though the majority of lung cancer cases are caused by tobacco smoking, an estimated ~25% of lung cancer cases worldwide occur among never-smokers. The rate of lung cancer among never-smokers is the highest in Asian women and these trends are consistent even among ethnically Chinese women who reside in the United States. The etiology of lung cancer among never-smokers and its risk factors are still under investigation. Lung cancer among never-smokers is predominantly of adenocarcinoma subtype and has distinct risk factors, histopathological features, and mutational signatures compared to smoking-related lung cancer. Many clinicians and researchers consider it a different disease altogether compared to smoking-related lung cancer. Known or suspected risk factors for lung cancer among never-smokers include secondhand smoke, household and outdoor air pollution, occupational exposures to known carcinogens, dietary habits, and non-malignant lung diseases such as pneumonia and tuberculosis. However, the mechanism of action of these exposures in lung cancer development in this population remains unclear.

Air pollution, including diesel combustion emissions, can exert biologic changes through oxidative stress generated from the production of reactive oxygen and electrophilic species (ROS/RES). Electrophiles enter the bloodstream primarily via the metabolism of xenobiotics and from inflammation caused by exogenous exposures and endogenous processes. RES can directly react with proteins and nucleic acids to influence processes and genes that are upregulated during periods of environmental and cellular stress, leading to adverse changes including inflammation, mitochondrial dysfunction, and reduced antioxidant capabilities. Given the highly reactive characteristics and short half-lives of RES, they cannot be directly measured *in vivo*. Instead, indirect methods to measure RES have focused on measuring long-lasting chemical modifications to abundant proteins, such as adducts in human serum albumin (HSA), which is the dominant scavenger of RES in the interstitial space. Notably, the cysteine (Cys34) residue, which is located on the third largest tryptic (T3) peptide of HSA, is a nucleophilic hotspot that accounts for nearly 80% of the antioxidant capacity of serum.

The NCI has conducted prospective cohort studies in Shanghai, China called the Shanghai Women's Health Study (SWHS). The purpose of this procurement is a fee-for-service contract to The University of California at Berkeley (Stephen Rappaport Laboratory) to extract adductomics data in blood samples from SWHS. NCI will use this data in their study of the potential associations between Cys34/Lys525 adductomic profiles in HSA and future risk of never-smoking lung cancer, with focus on lung adenocarcinoma.

2.1 OBJECTIVE

STATEMENT OF WORK (SOW)

To conduct adductomic data extraction and process normalization of data for 624 samples generated by an untargeted HSA-adductomics assay for a nested case-control lung cancer study in Shanghai Women's Health Study.

3.0 SCOPE

The purpose of this fee-for-service procurement is to conduct adductomic data extraction for control quality processing and process normalization of untargeted HSA-adductomics assay data of 624 blood samples from the SWHS cohort and send normalized data to the NCI.

4.0 CONTRACT REQUIREMENTS/ AND PERSONNEL QUALIFICATIONS

The Contractor shall perform the following tasks:

- 4.1 Log the 624 samples in a MS excel spreadsheet with sample IDs.
- 4.2 Process normalization of the adductomics assay output.
- 4.3 Provide normalized adductomics data including Cys34/Lys525 adductomic profiles with sample IDs and send to the NCI.

5.0 TYPE OF ORDER

This is a firm fixed price purchase order.

6.0 PERIOD OF PERFORMANCE

The period of performance shall be September 21, 2022 to September 20, 2023.

7.0 PLACE OF PERFORMANCE

All work shall be performed at the Contractor's facility.

8.0 REPORT(S)/DELIVERABLES AND DELIVERY SCHEDULE

All electronic deliverables shall be submitted for review and comment by the Government's technical point of contact (TPOC), for a review period not to exceed fifteen (15) business days, in accordance with the following deliverables table below:

DELIVERABLE	DELIVERABLE DESCRIPTION / FORMAT REQUIREMENTS	DUE DATE
#1 (Task 4.1)	Log the 624 samples in spreadsheet with sample IDs	(30) business days from the purchase order executive date.

STATEMENT OF WORK (SOW)

#2 (Task 4.2-4.3)	Process normalization of the adductomics assay output and provide the NCI normalized data including Cys34/Lys525 adductomic profiles with the sample IDs	(15) business days prior to purchase order expiration date.
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9.0 PAYMENT

Payment shall be made once after the deliverables are made. Funds should be transferred to the Rappaport laboratory revenue 62240-14015-44- -CPR59.

Payment authorization requires submission and approval of invoices to the COR and NIH OFM, in accordance with the attached 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.

STATEMENT OF WORK (SOW)

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

- 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

STATEMENT OF WORK (SOW)

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.

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

As prescribed in 4.2105(a), insert the following provision:

REPRESENTATION REGARDING CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT (AUG 2019)

(a) Definitions. As used in this provision—

Covered telecommunications equipment or services, Critical technology, and Substantial or essential component have the meanings provided in clause 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

(b) Prohibition. Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. Contractors are not prohibited from providing—

- (1) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or
- (2) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(c) Representation. The Offeror represents that—

It [] will, [] will not provide covered telecommunications equipment or services to the Government in the performance of any contract, subcontract or other contractual instrument resulting from this solicitation.

(d) Disclosures. If the Offeror has responded affirmatively to the representation in paragraph (c) of this provision, the Offeror shall provide the following information as part of the offer—

- (1) All covered telecommunications equipment and services offered (include brand; model number, such as original equipment manufacturer (OEM) number, manufacturer part number, or wholesaler number; and item description, as applicable);
- (2) Explanation of the proposed use of covered telecommunications equipment and services and any factors relevant to determining if such use would be permissible under the prohibition in paragraph (b) of this provision;
- (3) For services, the entity providing the covered telecommunications services (include entity name, unique entity identifier, and Commercial and Government Entity (CAGE) code, if known); and
- (4) For equipment, the entity that produced the covered telecommunications equipment (include entity name, unique entity identifier, CAGE code, and whether the entity was the OEM or a distributor, if known).

(End of provision)