

Posting Date: July 22, 2021

Closing Date: August 4, 2021 11:30 a.m. ET

Reference Number: 21-046043

To: NCI Bid Board

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

Subject: BID BOARD POSTING: Preparation and transmission of whole genome sequencing data for lung tumor and lung normal tissue and H&E slides from the lung adenocarcinoma study in Japan

The National Cancer Institute, 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.

In support of identifying distinct mutational signatures in lung tumors, the contractor shall: 1) prepare whole-genome scanning data and pathology data, making H&E slides on 67 lung adenocarcinoma cases from Japan, 2) make a slide from either the actual study sample or an area adjacent to the tumor lung sample from the each of the 67 lung adenocarcinoma cases and H&E stained and prepare for shipment and coordinate with NCI-designated and funded shipper, 3) prepare phenotype data including confirmed diagnosis, smoking status, gender, age, etc. based on a protocol to be provided by NCI within 15 days of the award, and 4) Upload whole-genome sequencing raw data, summary data and phenotype data of the 67 scanned cases to the Globus site set up by NCI (<https://hpc.nih.gov/storage/globus.html>).

The National Cancer Institute plans to purchase whole-genome sequencing of lung cancer tumors for the Sherlock-Lung study from 67 lung adenocarcinoma cases already sequenced in Japan in order to conduct an international whole-genome sequencing study of lung cancer tumors from never-smoking women in Asia, the U.S., Europe, South America and Africa to identify exposure-related mutational signatures to extend NCI's findings, and will compare results with signatures identified in cases NCI is analyzing from East Asia, the West, and other regions of the world as part of the Sherlock-Lung study. One site selected for study in this project is Japan because of its unique lifestyle and to have representation of the major East Asian populations. 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 4, 2021 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:

NCI did extensive literature searches (i.e. PubMed and Scopus), and discussed with scientists at national and international meetings, and the National Cancer Center (NCC) in Japan is the nation's leading cancer treatment, prevention, control, research, and education program. It is the Japanese site of the Female Lung Cancer Consortium in Asia (FLCCA) and is the largest cancer research center in Japan. Working with its hospital centers, the division of genome biology of NCC has performed large scale genotyping for genome-wide association studies including collaborative studies with the NCI and published with NCI genetic risk factors for lung adenocarcinoma. It is critical for scientific comparability that new cases that will be genotyped in this procurement be comparable to cases that were genotyped previously by the same center in Japan in the initial NCI GWAS of lung cancer in Asia. There is no other contract able to provide this service.

Attached Documents:

SF18

Statement of Work

FAR 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 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		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			
b. STREET ADDRESS		16. SIGNER	
c. COUNTY		a. NAME (Type or print)	b. TELEPHONE
d. CITY		AREA CODE	
e. STATE f. ZIP CODE		c. TITLE (Type or print)	
		NUMBER	

STATEMENT OF WORK (SOW)

1.0 TITLE

Preparation and transmission of whole genome sequencing data for lung tumor and lung normal tissue and H&E slides from the lung adenocarcinoma study in Japan (CAS: 10829)

2.0 BACKGROUND

Globally, over a million people are diagnosed with lung cancer each year, making it the most common type of cancer in the world. In addition, lung cancer is the leading cause of cancer death among both men and women, accounting for ~25% of all cancer deaths in the United States (U.S.) and ~19% of cancer deaths worldwide. Since lung cancer in smokers is highly preventable and targeting strategies for lung cancer screening have focused on smokers, it is critical to develop a thorough understanding of nonsmoking lung cancer to develop rational strategies for screening, prevention, and treatment. Moreover, the characterization of the risk factors and endogenous processes involved in lung tumorigenesis may improve prevention of lung cancer also in smokers.

Lung cancer in never-smokers includes approximately 10-25% of all lung cancers worldwide; ranks among the most common causes of cancer mortality; and, has a distinct natural history; high proportion of adenocarcinoma histology; likely different profile of oncogenic mutations; and response to targeted therapy compared to lung cancer in smokers. Although a few risk factors are known to contribute to the etiology of lung cancer in never smokers, a large fraction of cancer cases cannot be explained by established environmental and genetic risk factors, highlighting the need for research in this area. One promising approach to identify the etiological factors involved in lung tumorigenesis in never smokers is based on the study of the “mutational signatures” that the exogenous and endogenous processes leave on the tumor tissue and surrounding areas.

The U.S. Department of Health and Human Services (DHHS), National Institutes of Health (NIH), National Cancer Institute (NCI), Division of Cancer Epidemiology & Genetics (DCEG), Occupational and Environmental Epidemiology Branch (OEEB) is conducting an international whole-genome sequencing study of lung cancer tumors from never-smoking women in Asia, the U.S., Europe, South America and Africa to identify exposure-related mutational signatures to extend NCI’s findings, and will compare results with signatures identified in cases NCI is analyzing from East Asia, the West, and other regions of the world as part of the Sherlock-Lung study. One site selected for study in this project is Japan because of its unique lifestyle and to have representation of the major East Asian populations.

2.1 OBJECTIVE

To identify distinct mutational signatures in lung tumors, we propose to obtain whole-genome sequencing of lung cancer tumors for the Sherlock-Lung study from 67 lung adenocarcinoma cases already sequenced in Japan.

3.0 SCOPE

The purpose of this procurement is to support preparation of whole-genome scanning data and pathology data, making H&E slides on 67 lung adenocarcinoma cases in Japan, and transferring the

STATEMENT OF WORK (SOW)

individual whole-genome scanning data and phenotype data to the NCI and preparing the slides for shipment to NCI.

4.0 CONTRACT REQUIREMENTS/ AND PERSONNEL QUALIFICATIONS

The Contractor shall perform the following tasks:

- 4.1 Prepare whole-genome scanning data already sequenced on 67 lung adenocarcinoma cases from Japan.
- 4.2 Make a slide from either the actual study sample or an area adjacent to the tumor lung sample from the each of the 67 lung adenocarcinoma cases and H&E stained and prepare for shipment and coordinate with NCI-designated and funded shipper.
- 4.3 Prepare phenotype data including confirmed diagnosis, smoking status, gender, age, etc. based on a protocol to be provided by NCI within 15 days of the award.
- 4.4 Upload whole-genome sequencing raw data, summary data and phenotype data of the 67 scanned cases to the Globus site set up by NCI (<https://hpc.nih.gov/storage/globus.html>).

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, 2021 to September 20, 2022.

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)	Prepare whole-genome sequencing data in Japan in raw sequencing format, summary data in MS Excel format.	(45) business days prior to purchase order expiration date.
#2 (Task 4.2)	Prepare H&E slides and prepare slides for shipment to NCI and coordinate the shipment with the NCI-designated and funded shipper.	(15) business days prior to purchase order expiration date.

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#3 (Task 4.3)	Prepare phenotype data in MS Excel format	(45) business days prior to purchase order expiration date.
#4 (Task 4.4)	Upload whole-genome sequencing raw data, summary data and phenotype data	(15) business days prior to purchase order expiration date.

9.0 PAYMENT

Payment shall be made once after the deliverables are made. 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).

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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

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- 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.

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)