SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS

OFFEROR TO COMPLETE BLOCKS 12, 17, 23, 24, & 30

1. REQUISITION NUMBER: 1171117

PAGE 1 OF 21

2. CONTRACT NO.

3. AWARD/ EFFECTIVE DATE

4. ORDER NUMBER

5. SOLICITATION NUMBER: 1232SA26Q1115

6. SOLICITATION ISSUE DATE: 07/31/2026

7. FOR SOLICITATION INFORMATION CALL:

a. NAME: KATELYN NELSON

b. TELEPHONE NUMBER (No collect calls): 301-837-8754

8. OFFER DUE DATE/LOCAL TIME: 08/14/2026 0900 CT

9. ISSUED BY CODE ARS-1232SA

USDA ARS ACQUISITION AND PROPERTY D
5601 SUNNYSIDE AVENUE
RM 3-2102
BELTSVILLE MD 20705

10. THIS ACQUISITION IS ☐ UNRESTRICTED OR ☒ SET ASIDE: % FOR:

☒ SMALL BUSINESS
☐ HUBZONE SMALL BUSINESS
☐ SERVICE-DISABLED VETERAN-OWNED SMALL BUSINESS (SDVOSB)
☐ WOMEN-OWNED SMALL BUSINESS (WOSB)
☐ ECONOMICALLY DISADVANTAGED WOMEN-OWNED SMALL BUSINESS (EDWOSB)
☐ 8(A)

NORTH AMERICAN INDUSTRY CLASSIFICATION STANDARD (NAICS): 541380

SIZE STANDARD: $19

11. DELIVERY FOR FREE ON BOARD (FOB) DESTINATION UNLESS BLOCK IS MARKED
☒ SEE SCHEDULE

12. DISCOUNT TERMS

13a. THIS CONTRACT IS A RATED ORDER UNDER THE DEFENSE PRIORITIES AND ALLOCATIONS SYSTEM - DPAS (15 CFR 700)
☐

13b. RATING

14. METHOD OF SOLICITATION
☒ REQUEST FOR QUOTE (RFQ) ☐ INVITATION FOR BID (IFB) ☐ REQUEST FOR PROPOSAL (RFP)

15. DELIVER TO CODE ARS-1233GR

NEA COOL AND COLD WATER AQUACULTURE
11861 LEETOWN ROAD
KEARNEYSVILLE WV 25430

16. ADMINISTERED BY CODE ARS-1232SA

USDA ARS ACQUISITION AND PROPERTY D
5601 SUNNYSIDE AVENUE
RM 3-2102
BELTSVILLE MD 20705

17a. CONTRACTOR/ OFFEROR CODE

FACILITY CODE

TELEPHONE NO.

☐ 17b. CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER

18a. PAYMENT WILL BE MADE BY CODE

18b. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 18a UNLESS BLOCK BELOW IS CHECKED ☐ SEE ADDENDUM

19. ITEM NO.	20. SCHEDULE OF SUPPLIES/SERVICES	21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT
	The purpose of this Solicitation is to conduct NCCCWA FY26 Genome sequencing in rainbow trout in accordance with the attached Scope of Work. Delivery: 09/30/2026				
0001	High Molecular weight DNA extraction from blood	3	UN		
	Continued ...				

(Use Reverse and/or Attach Additional Sheets as Necessary)

25. ACCOUNTING AND APPROPRIATION DATA

26. TOTAL AWARD AMOUNT *(For Government Use Only)*

☒ 27a. SOLICITATION INCORPORATES BY REFERENCE (FEDERAL ACQUISITION REGULATION) FAR 52.212-1, 52.212-4. FAR 52.212-3 AND 52.212-5 ARE ATTACHED. ADDENDA ☒ ARE ☐ ARE NOT ATTACHED.

☐ 27b. CONTRACT/PURCHASE ORDER INCORPORATES BY REFERENCE FAR 52.212-4. FAR 52.212-5 IS ATTACHED. ADDENDA ☐ ARE ☐ ARE NOT ATTACHED.

☒ 28. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 1 COPIES TO ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY ADDITIONAL SHEETS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED.

☐ 29. AWARD OF CONTRACT: REFERENCE _____ OFFER DATED _____. YOUR OFFER ON SOLICITATION (BLOCK 5), INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE SET FORTH HEREIN, IS ACCEPTED AS TO ITEMS:

30a. SIGNATURE OF OFFEROR/CONTRACTOR

31a. UNITED STATES OF AMERICA *(SIGNATURE OF CONTRACTING OFFICER)*

30b. NAME AND TITLE OF SIGNER *(Type or print)*

30c. DATE SIGNED

31b. NAME OF CONTRACTING OFFICER *(Type or print)*: ELIZABETH R. CALHOUN

31c. DATE SIGNED

19. ITEM NO.	20. SCHEDULE OF SUPPLIES/SERVICES	21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT
0002	PacBio CCSExpress Library FOB: Destination	6	UN		
0003	PacBio Revio CCS sequencing FOB: Destination	9	UN		
0004	Unamplified Illumina Fragment Library FOB: Destination	3	UN		
0005	Library Construction Using Dovetail Hi-C Kit FOB: Destination	3	UN		
0006	Illumina NovaSeq X sequencing FOB: Destination	3	UN		
0007	shipping & handling FOB: Destination	1	UN		

32a. QUANTITY IN COLUMN 21 HAS BEEN

☐ RECEIVED ☐ INSPECTED ☐ ACCEPTED, AND CONFORMS TO THE CONTRACT, EXCEPT AS NOTED: _____

32b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE	32c. DATE	32d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE

32e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE	32f. TELEPHONE NUMBER OF AUTHORIZED GOVERNMENT REPRESENTATIVE
	32g. E-MAIL OF AUTHORIZED GOVERNMENT REPRESENTATIVE

33. SHIP NUMBER	34. VOUCHER NUMBER	35. AMOUNT VERIFIED CORRECT FOR	36. PAYMENT	37. CHECK NUMBER
☐ PARTIAL ☐ FINAL			☐ COMPLETE ☐ PARTIAL ☐ FINAL	

38. S/R ACCOUNT NUMBER	39. S/R VOUCHER NUMBER	40. PAID BY

41a. I CERTIFY THIS ACCOUNT IS CORRECT AND PROPER FOR PAYMENT		42a. RECEIVED BY *(Print)*	
41b. SIGNATURE AND TITLE OF CERTIFYING OFFICER	41c. DATE	42b. RECEIVED AT *(Location)*	
		42c. DATE REC'D *(YY/MM/DD)*	42d. TOTAL CONTAINERS

Whole Genome Sequencing from Rainbow Trout blood samples
1232SA26Q115

Contract Administration Data

i. Contracting Officer (CO): Elizabeth Calhoun
Address: USDA, ARS, AFM, APD, COB
5601 Sunnyside Ave
Beltsville, MD 20705
Email: Elizabeth Calhoun@usda.gov
Phone:

ii. Technical Point of Contact (TPOC): Yniv Palti
Address: USDA, ARS, NEA
Cool and Coldwater Aquaculture
11861 Leetown Road
Kearneysville, WV 25430
Email: Yniv.palti@usda.gov
Phone: (304)724-8340 x2134

iv. Contractor POC:
Email:
Phone:

Statement of Requirement

The USDA ARS National Center for Cool and Cold-Water Aquaculture (NCCCWA) requires whole genome sequencing to generate the data needed for De-novo genome assemblies from three rainbow trout blood samples using (1) Pacific Biosciences (PacBio) Revio DNA sequencing system; (2) Hi-C library construction and Illumina sequencing of the Hi-C libraries; and (3) Illumina sequencing of whole-genome unamplified fragment libraries.

Schedule of Items

CLIN	Description	Estimated Quantity	Unit of Issue	Unit Cost	Total
0001	High Molecular weight DNA extraction from blood	3	UN		
0002	PacBio CCSExpress Library	6	UN		
0003	PacBio Revio CCS Sequencing	9	UN		
0004	Unamplified Illumina Fragment Library	3	UN		
0005	Library construction using Dovetail Hi-C Kit	3	UN		
0006	Illumina NovaSeq X Sequencing	3	UN		
0007	Shipping & Handling	1	UN		
			TOTAL		

Whole Genome Sequencing from Rainbow Trout blood samples
1232SA26Q115

NAICS
This requirement is covered under NAICS code 541380. Size Standard $19M.

Non-Excepted Activity
Work under this contract has been determined NOT TO BE an Excepted Activity in the absence of an appropriation or CR. Activities under this contract do not support the preservation and protection of life and property and do not support law enforcement, health, and safety functions. In the event of shutdown, you will be notified by the cognizant contracting officer (CO) of the Government status and directed to suspend performance/stop work under this contract. For details on the procedures, see Federal Acquisition Regulation (FAR) Clause 52.242-14, Suspension of Work or FAR Clause 52.242-15, Stop Work Order, as included in this contract.

Legal Holidays
The Federal Government observes the following days as holidays.

New Year's Day	**January 1st**
Martin Luther King's Birthday	**Third Monday in January**
Presidents' Day	**Third Monday in February**
Memorial Day	**Last Monday in May**
Juneteenth	**June 19th**
Independence Day	**July 4th**
Labor Day	**First Monday in September**
Columbus Day	**Second Monday in October**
Veterans' Day	**November 11th**
Thanksgiving Day	**Fourth Thursday in November**
Christmas Day	**December 25th**

If the date falls on a Saturday, the Government holiday is the preceding Friday. If the date falls on a Sunday, the Government holiday is the following Monday. In addition to the days designated above as holidays, the Government may observe additional days in accordance with 5 USC 6103.

Technical Data

Technical data and supporting documentation associated with this solicitation are available through the following sources:

1. Solicitation Attachments
   The following documents are included as attachments to this solicitation
   - Attachment 2 – Scope of Work

Federal Acquisition Regulation (FAR) and United States Department of Agriculture Acquisition Regulation (AGAR) Clauses and Provisions

Whole Genome Sequencing from Rainbow Trout blood samples
1232SA26Q115

The clauses and provisions contained herein are applicable to any order awarded as a result of this solicitation. The terms and conditions set forth herein supersede all other terms and conditions. Acceptance of the order in accordance with (IAW) FAR 12.201-1(b)(2) constitutes acceptance of all terms and conditions contained herein.

As part of the Revolutionary FAR Overhaul (RFO), system updates may lag policy updates. The System for Award Management (SAM) may continue to require entities to complete representations based on provisions that are not included in this solicitation. Contracting officers will rely on representations from offers based on provisions in the solicitation. Entities are not required to, nor are they able to, update their entity registration to remove these representations in SAM.

52.252-2 Clauses Incorporated by Reference Feb 1998

This solicitation incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also the full text of the clause may be accessed electronically at Internet address https://www.acquisition.gov/far-overhaul/far-part-deviation-guide/far-overhaul-part-52

52.212-4 Terms and Conditions—Commercial Products and Commercial Services (Nov 2025)
☐ Alternate I (Nov 2025) of 52.212-4
52.203-17 Contractor Employee Whistleblower Rights (Nov 2023)
52.203-19 Prohibition on Requiring Certain Internal Confidentiality Agreements or Statements (Jan 2017)
52.222-50 Combating Trafficking in Persons (Nov 2025)
☐ Alternate I (Nov 2025) of 52.222-50
52.226-8 Encouraging Contractor Policies to Ban Text Messaging While Driving (May 2024)
52.232-39 Unenforceability of Unauthorized Obligations (Jun 2013)
52.232-40 Providing Accelerated Payments to Small Business Subcontractors (Mar 2023)
52.233-3 Protest After Award (Sep 2025)
52.233-4 Applicable Law for Breach of Contract Claim (Sep 2025)
52.240-91 Security Prohibitions and Exclusions (Nov 2025)
☐ Alternate I (Nov 2025) of 52.240-91
52.244-6 Subcontracts for Commercial Products and Commercial Services (Nov 2025)

<u>The following clauses are applicable if checked:</u>

☐ 52.203-6 Restrictions on Subcontractor Sales to the Government (Jun 2020) with Alternate I (Nov 2021) of 52.203-6
☐ 52.203-13 Contractor Code of Business Ethics and Conduct (Nov 2021)
☐ 52.204-9 Personal Identity Verification of Contractor Personnel Jan 2011
☒ 52.204-13 System for Award Management—Maintenance (Nov 2025)
☐ 52.204-91 Contractor identification (Nov 2025)
☐ 52.209-6 Protecting the Government's Interest When Subcontracting with Contractors Debarred, Suspended, or Proposed for Debarment (Sep 2025)
☐ 52.209-9 Updates of Publicly Available Information Regarding Responsibility

Matters (Sep 2025)
☒ 52.209-10 Prohibition on Contracting with Inverted Domestic Corporations (Sep 2025)
☐ 52.219-4 Notice of Price Evaluation Preference for HUBZone Small Business Concerns (Nov 2025)
☒ 52.219-6 Notice of Total Small Business Aside (Nov 2025)
☐ Alternate I (Mar 2020).
☐ 52.219-8 Utilization of Small Business Concerns (Nov 2025)
☐ 52.219-9 Small Business Subcontracting Plan (Nov 2025)
☐ Alternate III (Nov 2025) of 52.219-9.
☐ Alternate IV (Nov 2025) of 52.219-9
☐ 52.219-14 Limitations on Subcontracting (Nov 2025)
☐ 52.219-16 Liquidated Damages—Subcontracting Plan (Nov 2025)
☐ 52.219-33 Nonmanufacturer Rule (Nov 2025)
☒ 52.222-3 Convict Labor (June 2003)
☒ 52.222-19 Child Labor—Cooperation with Authorities and Remedies (Nov 2025)
☐ 52.222-35 Equal Opportunity for Veterans (Nov 2025)
☐ Alternate I (Jul 2014) of 52.222-35
☒ 52.222-36 Equal Opportunity for Workers with Disabilities (Nov 2025)
☐ Alternate I (Jul 2014) of 52.222-36
☐ 52.222-37 Employment Reports on Veterans (Nov 2025)
☐ 52.222-40 Notification of Employee Rights Under the National Labor Relations Act (Dec 2010
☒ 52.222-41 Service Contract Labor Standards (Aug 2018)
☒ 52.222-42 Statement of Equivalent Rates for Federal Hires (May 2014)

This Statement is for Information Only:
It is not a Wage Determination

Employee Class	Monetary Wage -- Fringe Benefits
Aircraft Mechanic	$XX.XX

☐ 52.222-43 Fair Labor Standards Act and Service Contract Labor Standards -- Price Adjustment (Multiple Year and Option Contracts) (Aug 2018)
☐ 52.222-44 Fair Labor Standards Act and Service Contract Labor Standards -- Price Adjustment (May 2014)
☐ 52.222-51 Exemption from Application of the Service Contract Labor Standards to Contracts for Maintenance, Calibration, or Repair of Certain Equipment-Requirements (May 2014)
☐ 52.222-53 Exemption from Application of the Service Contract Labor Standards to Contracts for Certain Services-Requirements (Nov 2025)
☐ 52.222-54 Employment Eligibility Verification (Nov 2025)
☒ 52.222-62 Paid Sick Leave Under Executive Order 13706 (Jan 2022)

☒ 52.222-90 Addressing DEI Discrimination by Federal Contractors (Apr 2026)
☐ 52.223-2 Reporting of Biobased Products Under Service and Construction Contracts (Nov 2025)
☐ 52.223-9 Estimate of Percentage of Recovered Material Content for EPA-Designated Items (May 2008)
☐ Alternate I (May 2008) of 52.223-9
☐ 52.223-11 Ozone-Depleting Substances and High Global Warming Potential Hydrofluorocarbons (Nov 2025)
☐ 52.223-12 Maintenance, Service, Repair, or Disposal of Refrigeration Equipment and Air Conditioners (Nov 2025)
☐ 52.223-23 Sustainable Products and Services (Nov 2025)
☐ 52.224-3 Privacy Training (Jan 2017)
☐ Alternate I (Jan 2017) of 52.224-3
☐ 52.225-1 Buy American-Supplies (Nov 2025)
☐ Alternate I (Oct 2022) of 52.225-1
☐ 52.225-3 Buy American--Free Trade Agreements--Israeli Trade Act (Nov 2025)
☐ Alternate II (Nov 2025) of 52.225-3.
☐ Alternate III (Nov 2025) of 52.225-3.
☐ Alternate IV (Oct 2022) of 52.225-3
☐ 52.225-5 Trade Agreements (Nov 2023)
☐ 52.225-19 Contractor Personnel in a Designated Operational Area or Supporting a Diplomatic or Consular Mission outside the United States (May 2020)
☐ 52.225-26 Contractors Performing Private Security Functions Outside the United States (Oct 2016)
☐ 52.226-4 Notice of Disaster or Emergency Area Set-Aside (Nov 2007)
☐ 52.226-5 Restrictions on Subcontracting Outside Disaster or Emergency Area (Aug 2025)
☐ 52.229-12 Tax on Certain Foreign Procurements
☐ 52.232-29 Terms for Financing of Purchases of Commercial Products and Commercial Services (Nov 2021)
☐ 52.232-30 Installment Payments for Commercial Products and Commercial Services (Nov 2021)
☒ 52.232-33 Payment by Electronic Funds Transfer— System for Award Management (Oct 2018)
☐ 52.232-34 Payment by Electronic Funds Transfer—Other Than System for Award Management (Jul 2013)
☐ 52.232-36 Payment by Third Party (Nov 2025)
☐ 52.237-2 Protection of Government Buildings, Equipment, and Vegetation (Apr 1984)
☐ 52.237-3 Continuity of Services (Jan 1991)
☐ 52.240-92 Security Requirements (Nov 2025)
☐ 52.240-93 Basic Safeguarding of Covered Contractor Information Systems (No 2025)
☐ 52.247-64 Preference for Privately Owned U.S.-Flag Commercial Vessels (Nov 2025)
☐ Alternate I (Apr 2023) of 52.247-64.
☐ Alternate II (Nov 2021) of 52.247-64

Other Applicable Clauses

52.247-34 F.O.B. Destination (Jan 1991)

AGAR Clauses

452.203-71 Anti-Discrimination and Diversity, Equity, and Inclusion (DEI) Compliance (May 2026)

(a) By entering into this contract, the contractor certifies that:

(1) It is compliant with all applicable Federal anti-discrimination laws and the Equal Protection principles of the U.S. Constitution, and it will remain compliant for the duration of the contract.

(2) Neither it nor any subcontractor or teaming partner operates or funds any program, policy, or initiative that promotes DEI in a manner that violates any applicable Federal anti-discrimination laws, including but not limited to Title VI and VII of the Civil Rights Act of 1964, or the Equal Protection principles of the U.S. Constitution, and the contractor and any subcontractor or teaming partner will not do so for the duration of the contract.

(b) If the contractor participates in, facilitates, or funds programs that implicate Title VI of the Civil Rights Act of 1964 or Title IX of the Education Amendments of 1972, as amended, including but not limited to grants to or for schools, colleges, universities, 4-H programs, non-governmental organization (NGO) programs, sports programs, and education-related grants to prisons or other

detention facilities, the contractor certifies that it will remain compliant with those laws, including the requirements set forth in Executive Order 14168, Defending Women from Gender Ideology Extremism and Restoring Biological Truth to the Federal Government, and Executive Order 14173, Ending Illegal Discrimination and Restoring Merit-Based Opportunity.

(c) The contractor affirms that the above requirements are conditions of payment that go to the essence of the contract and are therefore material terms of the contract. Payments under the contract are predicated on compliance with the above requirements, and therefore the contractor is not eligible for funding under the contract or to retain any funding under the contract absent compliance with the above requirements.

(d) This certification reflects a change in the Government's position regarding the materiality of the foregoing requirements and therefore any prior payment of similar claims does not reflect the materiality of the foregoing requirements to this contract.

(e) Submission of a knowing false statement relating to contractor's compliance with the above requirements and/or eligibility for the contract may subject the contractor to liability under the False Claims Act, 31 U.S.C. § 3729, and/or criminal liability, including under 18 U.S.C. §§ 287 and 1001.

(f) The contractor must include the provisions of this clause in all subcontract solicitations.

(g) Failure on the part of the contractor or its subcontractors to comply with the terms of this clause may be grounds for the Contracting Officer to terminate this contract for default.

(End of Clause)

AGAR 452.203-72 Unenforceable Supplier Terms (MAY 2026)

(a) Definitions.

Supplier terms mean provisions customarily drafted by vendors of supplies or services and intended to create a binding legal obligation on the end user. The term applies:

1. Regardless of the format or style of the document. For example, supplier terms may appear in standard terms of sale or lease, Terms of Service (TOS), End User License Agreement (EULA), or another similar legal instrument or agreement, and may be presented as part of a proposal or quotation responding to a solicitation for a contract or order or otherwise become effective after the contract date.

2. Regardless of the media or delivery mechanism used. For example, supplier terms may be presented as one or more paper documents or may appear on a computer or other electronic device screen during a purchase, software installation, other product delivery, registration for a service, or another transaction.

(b) Applicability. When any supply or service acquired under this contract is subject to supplier terms, the supplier terms are deemed part of the contract only to the extent they are consistent with this clause. Supplier terms that conflict with any part of this clause, the contract, or Federal law are void and will not be considered incorporated into a contract, even if they are physically present in a contract documentation or systems. In the event of any inconsistency between supplier terms and this contract, this clause and the terms of the Government contract must govern and supersede any supplier terms in all cases.

(c) Authorization Required. Notwithstanding any other provision, no supplier terms must be binding on the Government unless the term is expressly authorized on the USDA Supplier Terms Authorization Form signed by the Contracting Officer, and the completed Authorization Form has been incorporated into the contract.

(d) Unenforceable Terms. Any supplier terms that impose obligations or restrictions inconsistent with applicable Federal law are unenforceable against the Government and deemed stricken from the agreement. This includes, but is not limited to, any clause that:

(1) Requires the Government to pay future fees, penalties, interest, legal costs, early-termination fees, cancellation fees, minimum purchase commitments, true-up payments, seat-count minimums, usage minimums, continued-use charges, or any other financial obligation not expressly authorized by the contract.

(2) Requires the Government to indemnify the contractor or any other entity.

(3) Restricts the Government's ability to obtain similar supplies or services from another source.

(4) Imposes any penalty, financial or otherwise, based on the Government's decision not to exercise an option.

(5) Subjects the United States Government to the laws of any U.S. state, territory, district, municipality, or foreign nation, except where Federal law expressly permits such application.

(6) Requires dispute resolution in a forum or venue other than one prescribed by applicable Federal law.

(7) Establishes a period of limitations for bringing an action that differs from that provided by applicable Federal law.

(8) Grants the contractor rights to use, mine, access, aggregate, analyze, or otherwise exploit Government data, usage data, or metadata.

(9) Deems the Government to have accepted initial or revised terms based on silence, continued performance, or failure to object.

(10) Grants the supplier the right to audit Government facilities, systems, records, or use of the product or service, except as expressly authorized by the contract and applicable Federal law.

(11) Requires the Government to accept supplier security requirements, network access requirements, monitoring, penetration testing, or other technical or security measures.

(12) Permits the supplier to suspend, degrade, or terminate access to products or services based on alleged non-payment, alleged breach, automated security triggers.

(13) Limits the Government's right to use, install, access, test, evaluate, or transfer the licensed product or service in any manner consistent with the contract and Federal law.

(14) Requires the Government to store, process, maintain, or transmit data in a particular geographic location, or permits the supplier to transfer Government data outside the United States, except as expressly authorized by applicable Federal law.

(15) Authorizes the supplier to use the Government's name, seal, trademark, logo, or any reference to the Government as an end user or customer for marketing, publicity, promotional activities, press releases, or similar purposes.

(16) Incorporates by reference, or requires the Government to accept, terms or conditions imposed by any third party, subcontractor, or upstream service provider, unless such terms are expressly incorporated into the contract by bilateral modification.

(17) Limits, conditions, or negates the contractor's performance obligations, service levels, or remedies through a supplier-provided service level agreement (SLA).

(18) Uses Government data, usage data, metadata, prompts, content, or interactions to train, fine-tune, improve, or derive any artificial intelligence, machine learning, or automated decision-making model.

(19) Subjects the Government to automated decision-making, automated risk scoring, automated content moderation, or any algorithmic process that may affect access, performance, or rights under the contract.

(20) Utilizes artificial intelligence or algorithmic tools that produce decisions, recommendations, or outputs affecting contract performance without providing transparency, explainability, auditability, and bias-mitigation consistent with applicable Federal law and policy.

(21) Profiles, tracks, or analyzes Government user behavior, preferences, communications, or interactions for personalization, marketing, or algorithmic optimization purposes.

(e) Non-binding Actions. Neither the Government nor any Government authorized end user is deemed to have consented to any term, condition, or clause by virtue of its inclusion in the supplier agreement or through the use of clickwrap, browsewrap, "I agree" mechanisms, or similar means. Execution of such mechanisms does not bind the Government or its authorized end users to any unenforceable terms.

(f) End user. The supplier agreement must bind the ordering activity as the end user to the extent it does not conflict with the terms of this clause, but it must not bind or impose personal liability on any Government employee or any person acting on behalf of the Government in their personal capacity.

(g) Law and disputes. The supplier agreement is governed by Federal law.

(h) Statutory exception. This clause does not apply to indemnification or any other payment by the Government that is expressly authorized by statute and specifically authorized under applicable agency regulations and procedures.

(i) Continued performance. The supplier or licensor must not unilaterally revoke, terminate, or suspend any rights granted to the Government except as allowed by the contract. If the supplier or licensor believes the ordering activity to be in breach of the supplier agreement, it must pursue its rights under the Contract Disputes Act or other applicable Federal statute while proceeding diligently with performance, pending final resolution of any dispute in accordance with the Disputes Clause at FAR 52.212-4(d) or FAR 52.233-1, as applicable.

(j) Arbitration. Binding arbitration must not be used unless specifically authorized by agency guidance.

(k) Equitable or injunctive relief. Equitable or injunctive relief, including the award of attorney fees, costs, or interest, may be awarded against the United States Government only when explicitly provided by statute (e.g., the Prompt Payment Act or the Equal Access to Justice Act).

(l) Revisions to supplier agreements. Any revisions to the supplier agreement must be incorporated into the contract using a bilateral modification. Unilateral revisions are not binding on the Government.

(m) No automatic renewals. If any license or service tied to periodic payment is provided under the supplier agreement (e.g., annual software maintenance or annual lease term), such license or service must not renew automatically upon expiration of its current term without prior express written consent from an authorized Government representative.

(n) Indemnification. Any clause of the supplier agreement requiring the supplier or licensor to defend or indemnify the end user is amended to provide that the U.S. Department of Justice has the sole right to represent the United States in any such action, in accordance with 28 U.S.C. 516.

(o) Taxes or surcharges. Any taxes or surcharges which the supplier or licensor seeks to pass along to the Government as end user will be governed by the terms of the associated Government contract or order and must be submitted to the Contracting Officer for a determination of applicability prior to invoicing unless specifically agreed otherwise.

(p) Non-assignment. The supplier agreement may not be assigned, nor may any rights or obligations thereunder be delegated, without the Government's prior approval, except as expressly permitted by FAR 52.212-4(b) or FAR 52.232-23, as applicable.

(q) Confidential information. If the supplier agreement includes a confidentiality clause, such clause is amended to state that neither the agreement nor the contract price list, as applicable, must be deemed "confidential information." Issues regarding release of "unit pricing" will be resolved consistent with the Freedom of Information Act. Notwithstanding anything in the supplier agreement to the contrary, the Government may retain any confidential information as required by law, regulation, or its internal document retention procedures for legal, regulatory, or compliance purposes; provided, however, that all such retained confidential information will continue to be subject to the confidentiality obligations of the supplier agreement.

(r) Conflict with Federal law. If any other language, provision, or clause of the supplier agreement conflicts or is inconsistent with Federal law or the terms and conditions of this contract, such language, provisions, or clauses will be considered null and void and will not be binding on the United States Government.

(End of Clause)

452.204–70 Modification for Contract Closeout (Apr 2026)
(a) If unliquidated funds in the amount of $1000 or less remain on the contract, the Contracting Officer (Contracting Officer) may issue a unilateral modification for deobligation. The contractor will receive a copy of the modification but is not required to provide a signature. The Contracting Officer will immediately proceed with contract closeout upon completion of the period of performance, receipt and acceptance of supplies or services, and final payment.

(b) For commercial contracts not exceeding the simplified acquisition procedure threshold under FAR 12.001(c), if more than $1,000 in unliquidated funds remain at closeout, the Contracting Officer will issue a bilateral deobligation modification. Only the modification requires the contractor's signature, though a Release of Claims may be requested. If the required documents are not returned within 60 days, the Contracting Officer will issue a unilateral modification and proceed with closeout once performance is complete, acceptance is confirmed, and final payment is made.

(c) For all other non-commercial or non–cost-reimbursement contracts, if more than $1,000 in unliquidated funds remain at closeout, the Contracting Officer will issue a bilateral deobligation modification and a Release of Claims, both requiring contractor signature. If these documents are not returned within 120 days, the Contracting Officer will issue a unilateral modification u and proceed with closeout upon completion of performance, acceptance, and final payment.
(End of Clause)

Whole Genome Sequencing from Rainbow Trout blood samples
1232SA26Q115

Solicitation Information

Award Type

It is anticipated that a Firm Fixed Price Purchase Order will be awarded as a result of this synopsis/solicitation.

The Government intends to make one award from this solicitation. Therefore, to be considered responsive, contractors must submit pricing for all items.

Evaluation and Basis for Award

The provision at FAR 52.212-2, Evaluation—Commercial Products and Commercial Services is not applicable to this solicitation. In lieu of this provision, quotes will be evaluated in accordance with FAR 12.203 based on the criteria listed below.

Price:

The quoter shall provide pricing as requested in the Schedule of Items located on page 1 of this request for quote. Failure to propose pricing for all individual line items may result in a quotation being excluded from further consideration. The quoter's quotation will be evaluated in accordance with FAR 12.204, to determine if it is fair and reasonable.

Technical Acceptability:

The technical approach will evaluate the ability of the quoter to provide a sound and compliant approach that meets all requirements and shows a thorough understanding of the item. It is the contractor's responsibility to ensure their quotation clearly demonstrates their capability to meet these requirements. All quoters must provide the following minimum information and documentation with their quotations to be considered responsive and have their offers evaluated:

- Ability of the quoter to meet the schedule requirements listed in the Scope of Work.
- Detailed explanation of any requirement listed in the Statement of Work that cannot be successfully accomplished by the quoter.

Past Performance:

The Government may utilize any references provided by the Contractor, along with information available from past contracts/orders with the USDA and any information found using sources such as Federal Government sources or the Contractor Performance Assessment Reporting System (CPARS) to determine if the Contractor has acceptable or neutral Past Performance. Past Performance will be evaluated using the following rating system:

- Acceptable: The contractor shows a demonstrated ability to meet contract requirements in prior or current contracts, including quality of work, timeliness, cost control, business relations, and adherence to contract terms.

- Neutral: Quoter does not have a past performance record.

- Unacceptable: The contractor has a documented history of failing to meet contract requirements, including poor quality, missed deadlines, cost overruns, lack of responsiveness, or unethical behavior.

Evaluation Method:
The Government will evaluate quotations based on the lowest price technically acceptable criteria. Only the lowest priced offer will be evaluated for Technical Acceptability. Should the lowest priced offer not receive an acceptable technical or past performance rating, the process will continue in order of lowest priced offer until the lowest price, technically acceptable offer with acceptable or neutral past performance is identified.

In order to be considered for award **QUOTERS SHALL SUBMIT ALL OF THE FOLLOWING**:

1. Submit Firm Fixed Price quotation (quote on company letterhead) detailing the applicable item(s), description, price, PLACE of MANUFACTURE, and inclusive of ALL costs including , but not limited to shipping, and valid for at least 60 days after receipt of quote.

2. Submit attached SF-1449 with blocks 17a, 30a, 30b, 30c, and individual Contract Line Items priced in full.

3. Submit Sam.gov Unique Entity ID (UEI) with quotation.

REJECTION OF QUOTATION: Failure to demonstrate compliance or to submit **ALL** items requested in solicitation prior to due date will be cause to reject the quote *without* further discussions.

DISCUSSIONS: The Government intends to award without discussions but reserves the right to conduct discussions should it be deemed in the Government's best interest.

QUOTATIONS
Quotes are due on 08/14/2026 at 9:00 AM CST by email to Katelyn Nelson at Katelyn.nelson@usda.gov. **You must include the solicitation Title Name and Number as the subject line of the email.**

QUESTIONS
All questions must go to Katelyn Nelson, whom may be reached at Katelyn.Nelson@usda.gov for specific questions regarding this combined solicitation. **You must include the solicitation name AND number as the subject line of the email**. Questions by interested parties regarding the requirement must be submitted by **08/05/2026 by 9:00 AM CST.**

Delivery Information

F.o.b. destination, is requested as the F.O.B. point for all deliverables.

All offers will be considered F.O.B. Destination unless F.O.B. origin is specified AND estimated shipping costs are included.

The USDA requires delivery of all items within 60 days on contract award. Early deliveries will be accepted.

Shipping Instructions:
Items shall be shipped to the following address:
Dr. Yniv Palti
USDA-ARS-NCCCWA
11861 Leetown Road
Kearneysville, WV 25430

52.252-1 Solicitation Provisions Incorporated by Reference Feb 1998
This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. The quoter is cautioned that the listed provisions may include blocks that must be completed by the quoter and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the quoter may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer. Also, the full text of a solicitation provision may be accessed electronically at this/these address(es): https://www.acquisition.gov/far-overhaul/far-part-deviation-guide/far-overhaul-part-52

52.212-1 Instructions to Quoters - Commercial Products and Commercial Services (Nov 2025)

FAR 52.212-1 is amended as follows:

Period for acceptance of offers.
The Quoter agrees to hold the prices in its offer firm for **60 calendar days** from the date specified for receipt of offers.

52.203-18 Prohibition on Contracting with Entities that Require Certain Internal Confidentiality Agreements or Statements-Representation (Jan 2017)
52.209-2 Prohibition on Contracting with Inverted Domestic Corporations - Representation (Sep 2025)
52.209-11 Representation by Corporations Regarding Delinquent Tax Liability or a Felony Conviction under any Federal Law (Sep 2025)
52.240-90 Security Prohibitions and Exclusions Representations and Certifications (Nov 2025)

The following provisions are applicable if checked:

☐ 52.203-11 Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions (Sep 2024)
☒ 52.204-7 System for Award Management—Registration (Nov 2025)
☐ Alternate I (Nov 2025) to 52.204-7

☐ 52.204-90 Quoter Identification (Nov 2025)
☐ 52.207-6 Solicitation of Offers from Small Business Concerns and Small Business Teaming Arrangements or Joint Ventures (Multiple-Award Contracts) (Aug 2024)
☐ 52.209-12 Certification Regarding Tax Matters (Oct 2025)
☐ 52.219-2 Equal Low Bids (Nov 2025)
☐ 52.222-18 Certification Regarding Knowledge of Child Labor for Listed End Products (Feb 2021)
☐ 52.222-48 Exemption from Application of the Service Contract Labor Standards for Maintenance, Calibration, or Repair of Certain Equipment–Certification (Nov 2025)
☐ 52.222-52 Exemption from Application of the Service Contract Labor Standards for Certain Services-Certification (Nov 2025)
☐ 52.222-56 Certification Regarding Trafficking in Persons Compliance Plan (Oct 2020)
☐ 52.223-4 Recovered Material Certification (May 2008)
☐ 52.225-2 Buy American Certificate (Oct 2022)
☐ 52.225-4 Buy American-Free Trade Agreements-Israeli Trade Act Certificate (Nov 2025)
☐ 52.225-6 Trade Agreements-Certificate (Feb 2021)
☐ 52.226-3 Disaster or Emergency Area Representation (Nov 2007)
☐ 52.229-11 Tax on Certain Foreign Procurements—Notice and Representation (Jul 2025)

Other Applicable FAR Provisions

52.225-18 Place of Manufacture (Aug 2018)

AGAR Provisions

452.203-70 Anti-Discrimination and Diversity, Equity, and Inclusion (DEI) Certification (Dec 2025)

(a) By submission of its offer, the quoter certifies that:

(1) It is compliant with all applicable Federal anti-discrimination laws and the Equal Protection principles of the U.S. Constitution.
(2) Neither it nor any proposed subcontractor or teaming partner operates or funds any program, policy, or initiative that promotes DEI in a manner that violates any applicable Federal anti-discrimination laws, including but not limited to Title VI and VII of the Civil Rights Act of 1964, or the Equal Protection principles of the U.S. Constitution.

(b) If the quoter participates in, facilitates, or funds programs that implicate Title VI of the Civil Rights Act of 1964 or Title IX of the Education Amendments of 1972, as amended, including but not limited to grants to or for schools, colleges, universities, 4-H programs, non-governmental organization (NGO) programs, sports programs, and education-related grants to prisons or other detention facilities, by submission of its offer, the quoter certifies that it is compliant with those laws, including the requirements set forth in Executive Order 14168, Defending Women from

Gender Ideology Extremism and Restoring Biological Truth to the Federal Government, and Executive Order 14173, Ending Illegal Discrimination and Restoring Merit-Based Opportunity.

(c) The quoter affirms that the above requirements are conditions of payment that go to the essence of the contract and are therefore material terms of the contract. Payments under the contract are predicated on compliance with the above requirements, and therefore the quoter will not be eligible for funding under the contract or to retain any funding under the contract absent compliance with the above requirements.

(d) This certification reflects a change in the Government's position regarding the materiality of the foregoing requirements and therefore any prior payment of similar claims does not reflect the materiality of the foregoing requirements to this contract.

(e) Submission of a knowing false statement relating to quoter's compliance with the above requirements and/or eligibility for the contract may subject the quoter to liability under the False Claims Act, 31 U.S.C. § 3729, and/or criminal liability, including under 18 U.S.C. §§ 287 and 1001.

(f) Failure on the part of the quoter or its subcontractors to comply with the terms of this clause may be grounds for the Contracting Officer to terminate the contract for default.
(End of Provision)

NOTICE FOR FILING AGENCY PROTESTS
United States Department of Agriculture (USDA) Protest Procedures

The United States Department of Agriculture (USDA) is committed to fair, transparent, and efficient acquisitions. Interested parties with concerns about this solicitation are encouraged to seek resolution through the following USDA procedures.

Tier 1: Contracting Officer Concern Resolution

Submission: Interested parties with concerns about either the solicitation or subsequent award should first submit their concern directly to the Contracting Officer, providing sufficient detail to allow the Contracting Officer to understand and assess the issue.

Process: The Contracting Officer will review the concern, seek clarification as needed, and engage with the interested party to attempt prompt resolution.

Review Timeline: The Contracting Officer will make every effort to provide a response or resolution within 10 business days of receiving the concern.

Effect on Award or Performance: Tier 1 engagement is not considered an official notification of filing an agency protest and does not pause solicitation deadlines, delay award decisions, or suspend contract performance.

Next Steps: If the matter cannot be resolved at Tier 1, the interested party may file a written agency protest under Tier 2.

USDA encourages all parties to seek resolution with the Contracting Officer before filing an agency protest.

Tier 2: Agency Protest
If concerns cannot be resolved at Tier 1, an interested party may file a written agency protest with either the Contracting Officer or the USDA Independent Review Authority. The decision by the USDA Independent Review Authority is an alternative to a decision by the Contracting Officer. The USDA Independent Review Authority will not consider an appeal of the Contracting Officer's decision on an agency protest.
The protest must state whether the protester elects review by the Contracting Officer, by the UDSA Independent Review Authority. If no election is stated, the Contracting Officer will decide the protest.

Required Information: Protests shall include the information set forth in FAR 33.104-4 (a)(3). Failure to submit the required information may result in a delay or dismissal of the protest.

Submission: Agency protests should be submitted electronically to SPE.inquiry@usda.gov and the Contracting Officer.

Timeliness: Protests must be filed within the timeframes specified in FAR 33.104.

Effect on Award or Performance: Contract awards or performance will be suspended during the protest period unless justified in writing for urgent and compelling reasons or determined to be in the best interest of the Government.

Review Timeline: USDA strives to resolve agency-level protests within 35 business days of receipt.

Election of Forum: By filing a protest with USDA, the protesters agree not to file a protest on the same matter with the Government Accountability Office (GAO) or any other external forum while the agency protest is pending. If such a protest is filed externally, the USDA agency protest will be dismissed.

Questions: Questions regarding this notice or protest procedures should be directed to the Contracting Officer identified in this solicitation.

Whole Genome Sequencing from Rainbow Trout blood samples

Scope of Work:

The USDA ARS National Center for Cool and Cold-Water Aquaculture (NCCCWA) requires whole genome sequencing to generate the data needed for De-novo genome assemblies from three rainbow trout blood samples using (1) Pacific Biosciences (PacBio) Revio DNA sequencing system; (2) Illumina sequencing of whole-genome unamplified fragment libraries; and (3) Hi-C library construction and Illumina sequencing of the Hi-C libraries.

Fresh-freeze fish blood samples of sufficient amount will be provided by the government. Contractor shall provide all services, supplies, equipment, and facilities necessary to extract high molecular weight (HMW) DNA from rainbow trout blood (collected fresh in EDTA and flash frozen and shipped on dry ice) and provide sequencing of three (3) genomic DNA samples in accordance with the required performance elements and benchmarks.

Task 1: PacBio Sequencing

Schedule of Line Items:

Line Item 01 High molecular weight DNA extractions from 3 frozen rainbow trout blood samples (CLIN 0001)
Line Item 02 Preparation of 6 PacBio Circular Consensus Sequencing (CCS) libraries and sizing by Blue Pippin (CLIN 0002)
Line item 03 PacBio Revio sequencing (or similar) of the CCS libraries to generate HiFi reads (CLIN 0003)

REQUIREMENTS.

1. Large quantity of rainbow trout HMW genomic DNA extracted by the vendor from each of the 3 blood samples. DNA prep QC: Qubit and Bio-analyzer or similar;
2. PacBio CCS library preparation performed by the vendor following the best practices recommended by PacBio. Library prep QC must include sizing by Blue Pippin;
3. PacBio Revio (or similar) DNA sequencing to generate High Fidelity (HiFi) long reads using the circular consensus sequencing (CCS) mode;
4. Read Length: N50 is at least 12 Kb per sample;
5. Data Output: At least 180 Gb of pass filter reads (Q30) per sample. The output data files delivered in standard PacBio BAM files format;
6. Vendor must have in place a series of quality control (QC) steps during genomic DNA extractions, libraries preparation and genomic DNA sequencing. Information on library preparation and QC procedures must be documented and included in the final project report, including documentation of the actual fragment sizes used in libraries preps, number of SMRT cells used per sample, total output per cell and number of pass filter reads per cell;

Task 2: Illumina sequencing of whole-genome unamplified fragment libraries

Schedule of Line Items:

Line Item 01 Constructions of unamplified fragment libraries for Illumina sequencing of the 3 rainbow trout DNA samples (CLIN 0004)
Line Item 02 Illumina NovaSeq X sequencing (or similar) of the 3 unamplified fragment libraries (CLIN 0006)

REQUIREMENTS.

1. Amount of DNA extracted per sample shall be a minimum of 2,000 ng of intact rainbow trout genomic DNA.
2. Quality check of DNA samples by vendor using Qubit or similar instruments;
3. Standard Illumina shotgun genomic DNA PCR-free library preparation performed by the vendor (insert size shall be at least 350bp);
4. Platform and configuration: Illumina NovaSeq X or similar, PE 150 cycles;
5. Read Length: 2 x 150 nucleotides (paired-end);
6. Data Output: A minimum of 86.4 Gbases output DNA sequence per sample from 576M paired-end reads (288M reads in each direction). For each read, greater than 85% of bases shall have QC≥30. The output data files are in standard fastq format;
7. Vendor must have in place a series of quality control (QC) steps during libraries preparation and genomic DNA sequencing. Information on library preparation and QC procedures must be documented and included in the final project report.

Task 3: Hi-C Sequencing

Schedule of Line Items:

Line Item 01 Library construction using Dovetail Hi-C kit or similar from 3 frozen rainbow trout blood samples (CLIN 0005)
Line Item 02 Illumina NovaSeq X sequencing (or similar) of the 3 Hi-C libraries (CLIN 0006)

REQUIREMENTS.

1. Hi-C library preparation performed by the vendor following best practices for genome DNA sequencing recommended by Illumina. Library prep QC: Qubit and Bio-analyzer or similar;
2. Platform and configuration: Illumina NovaSeq X or similar;
3. Read Length: paired-ends (PE) 150bp;
4. Data Output: A minimum of 150 Gbases output DNA sequence per sample from 1,000M paired-end reads (500M reads in each direction). For each read, greater than 85% of bases shall have QC≥30. The output data files are in standard fastq format;
5. Vendor must have in place a series of quality control (QC) steps during libraries preparation and genomic DNA sequencing. Information on library preparation and QC procedures must be documented and included in the final project report;

6. The remainder of the libraries not used for Illumina sequencing will be stored by the vendor for at least 6 months past data delivery;

Task 4:

Schedule of Line Items:

Line Item 01 Unused frozen blood and genomic DNA samples extracted by the vendor will be sent back to the government frozen on dry ice (CLIN 0007)

Deliverables will include the DNA sequencing data from all methods and for all samples, all raw sequence data files, and Final Project Report. Unused frozen blood and genomic DNA samples extracted by the vendor will be sent back to the government. All data must be provided via secure portal download OR in an external hard drive (including shipping and handling) to the attention of Dr. Yniv Palti at the USDA-ARS-NCCCWA, 11861 Leetown Rd, Kearneysville, WV 25430.

Completion and return of all deliverables is required within **60 days from receipt of the samples from the government.** The order number shall be included on all documentation and shipments.