

STATE OF ALASKA REQUEST FOR PROPOSALS



RFP 2023-1000-0197 MINERALOGICAL SCANNING INSTRUMENT

ISSUED JUNE 20, 2023

ISSUED BY:

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF SUPPORT SERVICES

PRIMARY CONTACT:

[SHAWN M. OLSEN](#)

PROCUREMENT OFFICER

SHAWN.OLSEN@ALASKA.GOV

1 (907) 269-8687

OFFERORS ARE NOT REQUIRED TO RETURN THIS FORM.

IMPORTANT NOTICE: IF YOU RECEIVED THIS SOLICITATION FROM THE STATE OF ALASKA'S "ONLINE PUBLIC NOTICE" WEB SITE, YOU MUST REGISTER WITH THE PROCUREMENT OFFICER LISTED IN THIS DOCUMENT TO RECEIVE NOTIFICATION OF SUBSEQUENT AMENDMENTS. FAILURE TO CONTACT THE PROCUREMENT OFFICER MAY RESULT IN THE REJECTION OF YOUR OFFER.

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SECTION 1. INTRODUCTION & INSTRUCTIONS

SEC. 1.01 PURPOSE OF THE RFP

The Department of Natural Resources, Division of Support Services, is soliciting proposals for a mineralogical scanning instrument for the Division of Geological & Geophysical Surveys. A more detailed description including the scope of work is provided in Section 3.01 Scope of Work.

SEC. 1.02 BUDGET

The Department of Natural Resources, Division of Geological & Geophysical Surveys, estimates a budget of between \$1,200,000.00 and \$1,800,000.00 dollars for completion of this project. Proposals priced at more than \$2,000,000.00 will be considered non-responsive.

Payment for the contract is subject to funds already appropriated and identified.

SEC. 1.03 DEADLINE FOR RECEIPT OF PROPOSALS

Proposals must be received no later than **2:00 PM** Alaska Time on **July 11, 2023**, as indicated by postmark or email timestamp and late proposals will not be considered.

SEC. 1.04 MINIMUM REQUIREMENTS

In order for offers to be considered responsive offerors must meet these minimum requirements:

MINIMUM REQUIREMENT 1. The company must have more than a three-year history of development of similar commercial scanning products utilizing RGB, laser surface profiler, VNIR, SWIR, MWIR, and LWIR cameras for use in an industrial production environment (see Attachment 6, Section 6.1).

MINIMUM REQUIREMENT 2. The company must operate under a quality management system, such as ISO 9001:2015 or State approved, related to hyperspectral products and connected systems (see Attachment 6, Section 6.1).

MINIMUM REQUIREMENT 3. The company must engage in active geologic scanning research and partners in external R&D projects (see Attachment 6, Section 6.1).

MINIMUM REQUIREMENT 4. The company scanning platform must have the ability to generate, quality assure, transform, and co-register spectral data sets profiling geologic samples meeting industry standards and provided in open-source formats (see Attachment 6, Section 6.2).

MINIMUM REQUIREMENT 5. The company must provide vetted product development and integration of hardware, firmware, and software, including a list of product development deficiencies (see Attachment 6, Section 6.3).

MINIMUM REQUIREMENT 6. The company must guarantee the proper operation of the instrument and related systems (see Attachment 6, Section 6.4).

MINIMUM REQUIREMENT 7. The company must develop a maintenance timeline estimate for the lifecycle of all components for the HSI platform and guarantee equivalent replacement parts for a defined lifecycle of the instrument (see Attachment 6, Section 6.5).

MINIMUM REQUIREMENT 8. The company must offer a variety of local and remote support options for training, operation, troubleshooting, and local repair (see Attachment 6, Section 6.6).

MINIMUM REQUIREMENT 9. The scanning box width size must be at a minimum of 51 centimeters (see Attachment 6, Section 3.4.4.3).

Offerors must identify in their proposal how they meet the minimum requirements identified above. Proposals that do not identify how they meet the minimum requirements will be deemed non-responsive and rejected.

SEC. 1.05 REQUIRED REVIEW

Offerors should carefully review this solicitation for defects and questionable or objectionable material. Comments concerning defects and questionable or objectionable material should be made in writing and received by the procurement officer at least 10 days before the deadline for receipt of proposals. This will allow time for the issuance of any necessary amendments. It will also help prevent the opening of a defective proposal and exposure of the offeror's proposals upon which the award could not be made.

SEC. 1.06 QUESTIONS PRIOR TO DEADLINE FOR RECEIPT OF PROPOSALS

All questions must be in writing and directed to the procurement officer. The interested party must confirm telephone conversations in writing.

Two types of questions generally arise. One may be answered by directing the questioner to a specific section of the RFP. These questions may be answered over the telephone. Other questions may be more complex and may require a written amendment to the RFP. The procurement officer will make that decision.

Deadline to receive questions is **June 30, 2023, by 2:00 PM** Alaska Time.

PROCUREMENT OFFICER: **SHAWN M. OLSEN**; PHONE 1 (907) 269–8687; TDD 711 (Alaska Relay); Email: shawn.olsen@alaska.gov.

SEC. 1.07 RETURN INSTRUCTIONS

If submitting a proposal via email, the technical proposal and cost proposal must be saved as separate PDF documents and emailed to shawn.olsen@alaska.gov as separate, clearly labeled attachments, such as “Vendor A – Technical Proposal.pdf” and “Vendor A – Cost Proposal.pdf” (Vendor A is the name of the offeror). The email must contain the RFP number in the subject line.

The **maximum** size of a single email (including all text and attachments) that can be received by the State is **20mb (megabytes)**. If the email containing the proposal exceeds this size, the proposal must be sent in multiple emails that are each less than 20 megabytes and each email must comply with the requirements described above.

Please note that email transmission is not instantaneous. Similar to sending a hard copy proposal, if you are emailing your proposal, the State recommends sending it ahead of time to ensure the email is delivered by the deadline for receipt of proposals.

If submitting proposals using U.S. mail, or delivery service, offerors must submit one hard copy of their proposal, in writing, to the procurement officer in a sealed package. The cost proposal included in the package must be sealed separately from the rest of the proposal and must be clearly identified. The sealed proposal package(s) must be addressed as follows:

Department of Natural Resources
Division of Support Services
Attention: **SHAWN M. OLSEN**
Request for Proposal (RFP) Number: 2023-1000-0197
RFP Title: Mineralogical Scanning Instrument
550 West 7th Avenue, Suite 1330
Anchorage, Alaska 99501

It is the offeror's responsibility to contact the issuing agency at **1 (907) 269-8687** to confirm that the proposal has been received. The State is not responsible for unreadable, corrupt, or missing attachments.

SEC. 1.08 ENROLLMENT IN IRIS

Offerors will be required to be enrolled in the State of Alaska's Integrated Resource Information System (IRIS) database prior to the award of a contract resulting from this RFP. Enrollment can be done online at the following link: <https://iris-vss.alaska.gov>. Offerors who are not enrolled prior to the award of a contract will be notified by DNR Procurement. Failure of an offeror to enroll in the IRIS database will delay award of the contract and may delay issuance of contract work.

SEC. 1.09 ASSISTANCE TO OFFERORS WITH A DISABILITY

Offerors with a disability may receive accommodation regarding the means of communicating this RFP or participating in the procurement process. For more information, contact the procurement officer no later than 10 days prior to the deadline for receipt of proposals.

SEC. 1.10 AMENDMENTS TO PROPOSALS

Amendments to or withdrawals of proposals will only be allowed if acceptable requests are received prior to the deadline that is set for receipt of proposals. No amendments or withdrawals will be accepted after the deadline unless they are in response to the State's request in accordance with 2 AAC 12.290.

SEC. 1.11 AMENDMENTS TO THE RFP

If an amendment is issued before the deadline for receipt of proposals, the amendment will be posted on the State of Alaska Online Public Notice (OPN) website. The link to the posting of the amendment will be provided to all who were notified of the RFP and to those who have registered with the procurement officer after receiving the RFP from the OPN.

After receipt of proposals, if there is a need for any substantial clarification or material change in the RFP, an amendment will be issued. The amendment will incorporate clarification or change, and a new date and time established for new or amended proposals. Evaluations may be adjusted as a result of receiving new or amended proposals.

SEC. 1.12 RFP SCHEDULE

The RFP schedule set out herein represents the State's best estimate of the schedule that will be followed. If a component of this schedule, such as the deadline for receipt of proposals, is delayed, the rest of the schedule may be shifted accordingly. All times are Alaska Time.

ACTIVITY	TIME	DATE
Issue Date / RFP Released		June 20, 2023
Deadline for Receipt of Questions	2:00 PM	June 30, 2023
Deadline for Receipt of Proposals / Proposal Due Date	2:00 PM	July 11, 2023
ANTICIPATED Proposal Evaluations Complete		Week of July 24, 2023
ANTICIPATED Notice of Intent to Award		Week of July 24, 2023
ANTICIPATED Contract Issued		Week of August 7, 2023

This RFP does not, by itself, obligate the State. The State's obligation will commence when the contract is approved by the Commissioner of the Department of Natural Resources, or the Commissioner's designee. Upon written notice to the Contractor, the State may set a different starting date for the contract. The State will not be responsible for any work done by the Contractor, even work done in good faith, if it occurs prior to the contract start date set by the State.

SEC. 1.13 ALTERNATE PROPOSALS

Offerors may only submit one proposal for evaluation. In accordance with 2 AAC 12.830 alternate proposals (proposals that offer something different than what is asked for) will be rejected.

SEC. 1.14 NEWS RELEASES

News releases related to this RFP will not be made without prior approval of the project manager.

SECTION 2. BACKGROUND INFORMATION

SEC. 2.01 BACKGROUND INFORMATION

The Alaska Geologic Materials Center (GMC) is operated by the Department of Natural Resources from within the Division of Geological and Geophysical Surveys. This research library archives 75 years' worth of geologic data consisting of Alaska rock samples with an estimated replacement value well exceeding \$35 billion. GMC energy, mineral, engineering, and research collections contain more than 500,000 feet of unique contiguous rock cores, nearly 15,000 rock chip containers, 25,000,000 feet of unique cuttings intervals, 500,000 field hand samples, and more than 38,000 thin sections. The facility serves a wide range of users, including industry, government, academia, and the public, providing access to samples for identifying new resource prospects, increasing our geologic knowledge of the state, or sharing educational opportunities that connect the public with Alaska's rich geologic history.

The GMC uses the PostgreSQL database. Core box metadata includes box length, width, height, number of rows, general core sizes ranging from 0.75 to 6 inches in diameter, and core sample types such as "whole", "center cut", or "center split". See Attachments 7 and 8 for detailed core box information. Additional metadata contains either industry or GMC barcodes located on the front of box lids, a unique inventory_id, and numerous other parameters to identify, describe, and geo-locate each sample. There are occurrences of multiple inventory_ids with multiple core intervals associated with a single core box barcode. Internally developed Android hand scanners use warehouse Wi-Fi to interact directly with the database to perform numerous shelf and sample box inventory interactions based on barcodes.

An overarching objective of the GMC is to curate its collection, expand global access to materials to stimulate exploration and development of Alaska's resources, and increase geologic knowledge of systems on a regional level. Recent developments with automated nondestructive scanning equipment can provide digital visualization, distribution, and analysis of these datasets to the global geologic community.

Further facility details are in Attachment 5.

SECTION 3. SCOPE OF WORK & CONTRACT INFORMATION

SEC. 3.01 SCOPE OF WORK

The State of Alaska Geologic Materials Center (GMC) in Anchorage seeks the purchase of a Hyperspectral Scanning Instrument (HSI) for analysis and digital preservation of significant portions of its rock sample holdings. The HSI should be logistically optimized to handle tens-of-thousands of single to multi-row cores in plastic, cardboard, or wooden boxes. The HSI will generate high-resolution RGB sample images, high-density mineralogical spectral data cubes, and potentially 3D laser sample profile datasets. All data storage will be locally hosted on GMC data clusters. All quality assurance and pre- and post-processing, including preliminary mineral and alteration maps, will occur in-house at the GMC.

The HSI will operate from a climate-controlled warehouse (see Attachment 5). More than 60 feet of roller and ball bearing tables will front load the scanner and handle pre- and post-scan core boxes that are stored on nearby warehouse racks on pallets. A forklift and shrink-wrap machine will assist core box management. An adjacent HEPA filter vacuum system and other tools will clean the core before scanning. Water systems are not available for cleaning. Network and electrical utilities will drop from above to the instrument. The ideal staffing is a combination of one geologist and two natural resource technicians. Contiguous core scanning of the mineral and energy core collections should take less than two years. HSI examinations of washed drill cuttings and field-based hand samples will follow the core scanning activity.

Objectives for HSI:

- Conserve valuable geologic rock sample mass by utilizing non-destructive hyperspectral analytical techniques to evaluate mineralogy and other rock properties of core, chips, cuttings, hand samples, and other potential rock collections.
- Preserve information from degrading geologic rock samples using high-resolution RGB imaging.
- Provide rapid reconnaissance to characterize geologic properties of vast segments of GMC collections at a throughput of more than 480 m per day (80 m per hour for a six-hour scanning day).
- Increase industry investment expenditure and exploration in the state through the provision of high quality, precompetitive geoscience data and models.
- Utilize emerging digitalization processes combining augmented and virtual reality with machine learning to provide collaborative multi-user geologic visualization environments with immersive analytics (<https://www.youtube.com/watch?v=D276qn4PDzo>).

- Foster partnerships with the University of Alaska, or other universities, to provide more focused, detailed, or high quality use of the hyperspectral scanning instrument on selected rock suites.
- Develop large quality datasets appropriate for regional, depositional, or mineral deposit type models to characterize selected Alaska geologic environments.
- Build a user friendly, robust, more automated, and locally hosted IT architecture to process, store, host, find, interpret, visualize, and distribute diverse and potentially very large spectral datasets.
- Efficiently integrate GMC metadata database systems with HSI data handling systems to improve accuracy and speed of scanning, storage, and retrieval processes.

SEC. 3.02 CONTRACT TERM AND WORK SCHEDULE

The length of the contract will be from the date of award until December 31, 2024.

Unless otherwise provided in this RFP, the State and the successful offeror/contractor agree: (1) that any extension of the contract excluding any exercised renewal options, will be considered as a month-to-month extension, and all other terms and conditions shall remain in full force and effect and (2) the procurement officer will provide notice to the Contractor of the intent to cancel such month-to-month extension at least 30 days before the desired date of cancellation. A month-to-month extension may only be executed by the procurement officer via a written contract amendment.

SEC. 3.03 DELIVERABLES

The Contractor will be required to provide the following deliverables:

A. HYPERSPECTRAL SCANNING INSTRUMENT (HSI);

- 1) Negotiated platform specifications,
- 2) Negotiated tool specifications,
- 3) Negotiated workflow,
- 4) HSI installation,
- 5) GMC staff training,
- 6) Systems testing period.

B. IT PARAMETERS;

- 1) Pre-interpretation data products must be processed within the State's IT architecture;
 - i. RAW spectral datacube tied to unique GMC inventory id,
 - ii. Initial processing and editing capacities to produce reflectance datacube.
- 2) Basic interpretation and visualization products (optional).

C. WARRANTY; and**D. ANNUAL OPERATION AND MAINTENANCE FEES.**

More detailed platform and tool specifications are in Section 5.05 of this document.

Rates and prices shall be deemed inclusive of all additional expenses howsoever incurred.

- Itemized instrument costs,
 - Shipping costs,
 - Import fees,
 - Training fees*,
 - O&M annual fee,
 - Additional data processing fees (optional),
 - Other costs.
1. *Testing and training for five individuals covering instrument operation, troubleshooting, local maintenance, software operation and procedures, post-scanning data storage, and data processing.

SEC. 3.04 CONTRACT TYPE

This contract is a firm fixed price contract.

SEC. 3.05 PROPOSED PAYMENT PROCEDURES

The State will make payments based on a negotiated payment schedule. Each billing must consist of an invoice and progress report. No payment will be made until the progress report, and the invoice has been approved by the project manager.

SEC. 3.06 CONTRACT PAYMENT

No payment will be made until the contract is approved by the Commissioner of the Department of Natural Resources or the Commissioner's designee. Under no conditions will the State be liable for the payment of any interest charges associated with the cost of the contract. The State is not responsible for and will not pay federal, state, or local taxes. All costs associated with the contract must be stated in U.S. currency.

Payment for agreements under \$500,000.00 for the undisputed purchase of goods or services provided to a state agency, will be made within 30 days of the receipt of a proper billing or the delivery of the goods or services to the location(s) specified in the agreement, whichever is later. A late payment is subject to 1.5% interest per month on the unpaid balance. Interest will not be paid if there is a dispute or if there is an agreement that establishes a lower interest rate or precludes the charging of interest.

Any single contract payment of \$1 million or higher must be accepted by the Contractor via Electronic Funds Transfer (EFT).

SEC. 3.07 LOCATION OF WORK

The location where the hyperspectral scanning instrument is to be delivered and installed is 3651 Penland Parkway, Anchorage, Alaska 99508.

The Contractor should include in their price proposal: transportation, lodging, and per diem costs sufficient to pay for delivery and installation of the hyperspectral scanning instrument. Travel to other locations will not be required.

By signature on their proposal, the offeror certifies that all services provided under this contract by the Contractor and all subcontractors shall be performed in the United States.

If the offeror cannot certify that all work will be performed in the United States, the offeror must contact the procurement officer in writing to request a waiver at least 10 days prior to the deadline for receipt of proposals.

The request must include a detailed description of the portion of work that will be performed outside the United States, where, by whom, and the reason the waiver is necessary.

Failure to comply with these requirements may cause the state to reject the proposal as non-responsive or cancel the contract.

SEC. 3.08 SUBCONTRACTORS

Subcontractors will not be allowed.

SEC. 3.09 JOINT VENTURES

Joint ventures will not be allowed.

SEC. 3.10 RIGHT TO INSPECT PLACE OF BUSINESS

At reasonable times, the State may inspect those areas of the Contractor's place of business that are related to the performance of a contract. If the State makes such an inspection, the Contractor must provide reasonable assistance.

SEC. 3.11 F.O.B. POINT

All goods purchased through this contract will be F.O.B. final destination. Unless specifically stated otherwise, all prices offered must include the delivery costs to any location within the State of Alaska.

SEC. 3.12 CONTRACT PERSONNEL

Any change of the project team members or subcontractors named in the proposal must be approved, in advance and in writing, by the project manager or procurement officer. Changes that are not approved by the State may be grounds for the State to terminate the contract.

SEC. 3.13 INSPECTION & MODIFICATION - REIMBURSEMENT FOR UNACCEPTABLE DELIVERABLES

The Contractor is responsible for the completion of all work set out in the contract. All work is subject to inspection, evaluation, and approval by the project manager. The State may employ all reasonable means to ensure that the work is progressing and being performed in compliance with the contract. The project manager or procurement officer may instruct the Contractor to make corrections or modifications if needed in order to accomplish the contract's intent. The Contractor will not unreasonably withhold such changes.

The substantial failure of the Contractor to perform the contract may cause the State to terminate the contract. In this event, the State may require the Contractor to reimburse monies paid (based on the identified portion of unacceptable work received) and may seek associated damages.

SEC. 3.14 CONTRACT CHANGES - UNANTICIPATED AMENDMENTS

During the course of this contract, the Contractor may be required to perform additional work. That work will be within the general scope of the initial contract. When additional work is required, the project manager will provide the Contractor a written description of the additional work and request the Contractor to submit a firm time schedule for accomplishing the additional work and a firm price for the additional work. Cost and pricing data must be provided to justify the cost of such amendments per AS 36.30.400.

The Contractor will not commence additional work until the procurement officer has secured any required State approvals necessary for the amendment and issued a written contract amendment, approved by the Commissioner of the Department of Natural Resources or the Commissioner's designee.

SEC. 3.15 NONDISCLOSURE AND CONFIDENTIALITY

The Contractor agrees that all confidential information shall be used only for purposes of providing the deliverables and performing the services specified herein and shall not disseminate or allow dissemination of confidential information except as provided for in this section. The Contractor shall hold as confidential and will use reasonable care (including both facility physical security and electronic security) to prevent unauthorized access by, storage, disclosure, publication, dissemination to and/or use by third parties of, the confidential information. “Reasonable care” means compliance by the Contractor with all applicable federal and state law, including the Social Security Act and HIPAA. The Contractor must promptly notify the State in writing if it becomes aware of any storage, disclosure, loss, unauthorized access to or use of the confidential information.

Confidential information, as used herein, means any data, files, software, information or materials (whether prepared by the State or its agents or advisors) in oral, electronic, tangible or intangible form and however stored, compiled or memorialized that is classified confidential as defined by State of Alaska classification and categorization guidelines provided by the State to the Contractor or a contractor agent or otherwise made available to the Contractor or a contractor agent in connection with this contract, or acquired, obtained or learned by the Contractor or a contractor agent in the performance of this contract. Examples of confidential information include, but are not limited to: technology infrastructure, architecture, financial data, trade secrets, equipment specifications, user lists, passwords, research data, and technology data (infrastructure, architecture, operating systems, security tools, IP addresses, etc.).

If confidential information is requested to be disclosed by the Contractor pursuant to a request received by a third party and such disclosure of the confidential information is required under applicable federal or state law, regulation, governmental or regulatory authority, the Contractor may disclose the confidential information after providing the State with written notice of the requested disclosure (to the extent such notice to the State is permitted by applicable law) and giving the State opportunity to review the request. If the Contractor receives no objection from the State, it may release the confidential information within 30 days. Notice of the requested disclosure of confidential information by the Contractor must be provided to the State within a reasonable time after the Contractor’s receipt of notice of the requested disclosure and, upon request of the State, shall seek to obtain legal protection from the release of the confidential information.

The following information shall not be considered confidential information: information previously known to be public information when received from the other party; information freely available to the general public; information which now is or hereafter becomes publicly known by other than a breach of confidentiality hereof; or information which is disclosed by a party pursuant to subpoena or other legal process and which as a result becomes lawfully obtainable by the general public.

SEC. 3.16 INDEMNIFICATION

The Contractor shall indemnify, hold harmless, and defend the Contracting Agency from and against any claim of, or liability for error, omission, or negligent act of the Contractor under this agreement. The Contractor shall not be required to indemnify the Contracting Agency for a claim of, or liability for, the independent negligence of the Contracting Agency. If there is a claim of, or liability for, the joint negligent error or omission of the Contractor and the independent negligence of the Contracting Agency, the indemnification and hold harmless obligation shall be apportioned on a comparative fault basis. "Contractor" and "Contracting Agency," as used within this and the following article, include the employees, agents and other contractors who are directly responsible, respectively, to each. The term "independent negligence" is negligence other than in the Contracting Agency's selection, administration, monitoring, or controlling of the Contractor and in approving or accepting the Contractor's work.

SEC. 3.17 INSURANCE REQUIREMENTS

Without limiting Contractor's indemnification, it is agreed that Contractor shall purchase at its own expense and maintain in force at all times during the performance of services under this agreement the following policies of insurance. Where specific limits are shown, it is understood that they shall be the minimum acceptable limits. If the Contractor's policy contains higher limits, the State shall be entitled to coverage to the extent of such higher limits.

Certificates of Insurance must be furnished to the procurement officer prior to beginning work and must provide a notice of cancellation, non-renewal, or material change of conditions in accordance with policy provisions. Failure to furnish satisfactory evidence of insurance or lapse of the policy is a material breach of this contract and shall be grounds for termination of the Contractor's services. All insurance policies shall comply with and be issued by insurers licensed to transact the business of insurance under AS 21.

Workers' Compensation Insurance: The Contractor shall provide and maintain, for all employees engaged in work under this contract, coverage as required by AS 23.30.045, and where applicable, any other statutory obligations including but not limited to Federal U.S.L. & H. and Jones Act requirements. The policy must waive subrogation against the State.

Commercial General Liability Insurance: Covering all business premises and operations used by the Contractor in the performance of services under this agreement with minimum coverage limits of \$300,000 combined single limit per claim.

Commercial Automobile Liability Insurance: Covering all vehicles used by the Contractor in the performance of services under this agreement with minimum coverage limits of \$300,000 combined single limit per claim.

SEC. 3.18 TERMINATION FOR DEFAULT

If the project manager or procurement determines that the Contractor has refused to perform the work or has failed to perform the work with such diligence as to ensure its timely and accurate completion, the State may, by providing written notice to the Contractor, terminate the Contractor's right to proceed with part or all the remaining work.

This clause does not restrict the State's termination rights under the contract provisions of Appendix A, attached in **SECTION 7. ATTACHMENTS**.

SECTION 4. PROPOSAL FORMAT AND CONTENT

SEC. 4.01 INTRODUCTION

Proposals must include the complete name and address of the offeror's firm and the name, mailing address, and telephone number of the person the State should contact regarding the proposal.

Proposals must confirm that the offeror will comply with all provisions in this RFP; and, if applicable, provide notice that the firm qualifies as an Alaskan bidder. Proposals must be signed by a company officer empowered to bind the company. An offeror's failure to include these items in the proposals may cause the proposal to be determined to be non-responsive and the proposal may be rejected.

The State discourages overly lengthy and costly proposals, however, in order for the State to evaluate proposals fairly and completely, offerors must follow the format set out in this RFP and provide all information requested.

SEC. 4.02 PROPOSAL CONTENTS

The following information must be included in all proposals.

(a) AUTHORIZED SIGNATURE

All proposals must be signed by an individual authorized to bind the offeror to the provisions of the RFP. Proposals must remain open and valid for at least 90-days from the date set as the deadline for receipt of proposals.

(b) OFFEROR'S CERTIFICATION

By signature on the proposal, offerors certify that they comply with the following:

- A. the laws of the State of Alaska;
- B. the applicable portion of the Federal Civil Rights Act of 1964;
- C. the Equal Employment Opportunity Act and the regulations issued thereunder by the federal government;
- D. the Americans with Disabilities Act of 1990 and the regulations issued thereunder by the federal government;
- E. all terms and conditions set out in this RFP;
- F. a condition that the proposal submitted was independently arrived at, without collusion, under penalty of perjury; and
- G. that the offers will remain open and valid for at least 90 days.

If any offeror fails to comply with [a] through [g] of this paragraph, the State reserves the right to disregard the proposal, terminate the contract, or consider the Contractor in default.

(c) VENDOR TAX ID

A valid Vendor Tax ID must be submitted to the issuing office with the proposal or within five days of the State's request.

(d) CONFLICT OF INTEREST

Each proposal shall include a statement indicating whether or not the firm or any individuals working on the contract has a possible conflict of interest (e.g., currently employed by the State of Alaska or formerly employed by the State of Alaska within the past two years) and, if so, the nature of that conflict. The procurement officer reserves the right to **consider a proposal non-responsive and reject it** or cancel the award if any interest disclosed from any source could either give the appearance of a conflict or cause speculation as to the objectivity of the contract to be performed by the offeror.

(e) FEDERAL REQUIREMENTS

The offeror must identify all known federal requirements that apply to the proposal, the evaluation, or the contract.

SEC. 4.03 EXPERIENCE AND QUALIFICATIONS

Offerors must provide an organizational chart specific to the personnel assigned to accomplish the work called for in this RFP; illustrate the lines of authority; designate the individual responsible and accountable for the completion of each component and deliverable of the RFP.

Offerors must provide a narrative description of the organization of the project team and a personnel roster that identifies each person who will actually work on the contract and provide the following information about each person listed:

- title,
- resume,
- location(s) where work will be performed,
- itemize the total cost and the number of estimated hours for each individual named above.

Offerors must provide reference names and phone numbers for similar projects the offeror's firm has completed.

SEC. 4.04 UNDERSTANDING OF THE PROJECT

Offerors must provide comprehensive narrative statements that illustrate their understanding of the requirements of the project and the project schedule.

SEC. 4.05 METHODOLOGY USED FOR THE PROJECT

Offerors must provide comprehensive narrative statements that set out the methodology they intend to employ and illustrate how the methodology will serve to accomplish the work and meet the State's project schedule.

SEC. 4.06 MANAGEMENT PLAN FOR THE PROJECT

Offerors must provide comprehensive narrative statements that set out the management plan they intend to follow and illustrate how the plan will serve to accomplish the work and meet the State's project schedule.

SEC. 4.07 COST PROPOSAL

Offerors must complete and submit this Submittal Form. Proposed costs must all direct and indirect costs associated with the performance of the contract, including, but not limited to, total number of hours at various hourly rates, direct expenses, payroll, supplies, overhead assigned to each person working on the project, percentage of each person's time devoted to the project, and profit. The costs identified on the cost proposal are the total amount of costs to be paid by the State. No additional charges shall be allowed.

SEC. 4.08 BID BOND – PERFORMANCE BOND – SURETY DEPOSIT

Not applicable for this RFP.

SEC. 4.09 EVALUATION CRITERIA

All proposals will be reviewed to determine if they are responsive. Proposals determined to be responsive will be evaluated using the criterion that is set out in **SECTION 5. EVALUATION CRITERIA AND CONTRACTOR SELECTION**.

SECTION 5. EVALUATION CRITERIA AND CONTRACTOR SELECTION

THE TOTAL NUMBER OF POINTS USED TO SCORE THIS PROPOSAL IS 100

SEC. 5.01 SUMMARY OF EVALUATION PROCESS

The State will use the following steps to evaluate and prioritize proposals:

- a) Proposals will be assessed for overall responsiveness. Proposals deemed non-responsive will be eliminated from further consideration.
- b) A Proposal Evaluation Committee (PEC), made up of at least three State employees or public officials, will evaluate the Technical portion of all responsive proposals.
- c) Each responsive Technical Proposal will be sent to the PEC. No cost information will be shared or provided to the PEC.
- d) The PEC will independently evaluate and score the proposals based on the degree to which they meet the stated evaluation criteria.
- e) After independent scoring, the PEC will have a meeting, chaired by the procurement officer, where the PEC may have a group discussion prior to finalizing their scores.
- f) The PEC will submit their final individual scores to the procurement officer, who will then compile the scores and calculate awarded points as set out in Section 5.03.
- g) The procurement officer will calculate scores for cost proposals as set out in Section 5.08 and add those scores to the awarded points along with factoring in any Alaska preferences.
- h) The procurement officer may ask for best and final offers from offerors susceptible for award and revise the cost scores accordingly.
- i) The State will then conduct any necessary negotiations with the highest scoring offeror and award a contract if the negotiations are successful.

SEC. 5.02 EVALUATION CRITERIA

Proposals will be evaluated based on their overall value to the State, considering both cost and non-cost factors as described below. Note: An evaluation may not be based on discrimination due to the race, religion, color, national origin, sex, age, marital status, pregnancy, parenthood, disability, or political affiliation of the offeror.

SEC. 5.03 SCORING METHOD AND CALCULATION

Each Proposal Evaluation Committee (PEC) member will individually evaluate and score each responsive proposal using the criteria set out in Sections 5.04 through 5.07.

SEC. 5.04 EXPERIENCE AND QUALIFICATIONS (5%)

Proposals will be evaluated against the questions set out below:

1) Questions regarding the personnel:

- a) Do the individuals assigned to the project have experience on similar projects?
- b) Are resumes complete and do they demonstrate backgrounds that would be desirable for individuals engaged in the work the project requires?
- c) How extensive is the applicable education and experience of the personnel designated to work on the project?

2) Questions regarding the firm and subcontractor (if used):

- a) How well has the firm demonstrated experience in completing similar projects on time and within budget?
- b) How successful is the general history of the firm regarding timely and successful completion of projects?
- c) Has the firm provided letters of reference from previous clients?
- d) If a subcontractor will perform work on the contract, how well do they measure up to the evaluation used for the offeror?

SEC. 5.05 UNDERSTANDING OF THE PROJECT (50%)

Proposals will be evaluated against the questions set out below:

1) Certification, standards, performance, testing, and calibration (see Attachment 6, Section 1):

- a) Has the offeror obtained proper certifications by listing agencies such as UL, CE, or TL to legally operate the instrument in the United States?
- b) How well has the offeror demonstrated instrument calibration through NIST traceable or IEEE P4001 standards?
- c) How well has the offeror demonstrated instrument performance by way of standardized suite of materials test scans for each IR camera?
- d) Has the offeror validated proper operation of instrument systems under working conditions that include thermal, pressure, vibration, and electromagnetic interactions?
- e) Has the offeror provided comprehensive reports detailing testing results of the IR cameras?

- f) Has the offeror provided reports detailing testing results for the RGB camera?
- g) Has the offeror provided reports detailing testing results for the 3D laser surface profiler?
- h) How well does the offeror list and retain calibration data provided for each instrument?
- i) How well does the offeror monitor original baseline function relative to long-term drift in camera performance?
- j) How well does the offeror provide post-delivery performance testing of the HSI platform and toolsets?
- k) How well does the offeror provide documented transparency for instrument characterization procedures?

2) Documentation (see Attachment 6, Section 2):

- a) How well does the offeror detail site preparation and installation of the HSI system?
- b) How well does the offeror describe operation of the HSI system through all stages of high-quality signal acquisition?
- c) How well does the offeror specify all aspects of data creation, transformation, retention, and access?
- d) If untaken, how well does the offeror describe post-processing interpretive algorithms for determination of mineralogy or other analysis of the available spectral datasets?
- e) If available, how well does the offeror document and support an SDK and/or API for in-house enhancement of HSI system functions and capabilities?

3) HSI platform specifications (see Attachment 6, Section 3):

- a) How well does the offeror list HSI platform operating tolerances.
- b) How well does the offeror list physical size and weight specifications of the platform, including the ability to stabilize the instrument platform during earthquakes?
- c) How well does the offeror handle instrument-side engineering of electrical and network utility connections?
- d) How well does the offeror implement materials handling, integration into external box handling systems, and provide the capacity to scan most all GMC core boxes dimensions (see Attachments 7 and 8)?
- e) Has the offeror included mount points to accommodate the necessary RGB, IR, and 3D laser toolsets, with each camera supported by precise camera illumination?

- f) If available, how well does the offeror implement camera upgrades or the ability to deploy IR cameras to a field setting?
- g) How well does the offeror implement user control of the HSI box scan cycle, provide real-time feedback, and handle the rescan process?

4) Camera specifications (see Attachment 6, Section 4):

- a) How well does the offeror list basic specifications of the high-resolution RGB camera?
- b) How well does the offeror list basic specifications of the VNIR, SWIR, MWIR, and LWIR cameras operating within the general bandwidth of 400nm to 15,000nm?
- c) How well does the offeror list basic specifications of the 3D surface laser profiler?

5) IT support (see Attachment 6, Section 5):

- a) How well does the offeror define the included support term for upgrades to firmware and software, including any required operating system migration?
- b) Does the offeror put forward the option to extend support?
- c) How well does the offeror demonstrate that workstation(s) specifications can accommodate peak processing demands?
- d) How well does the offeror demonstrate software capacity and monitoring for both the acquisition and pre-processing stages, along with the optional post-processing interpretive stage?
- e) If offered, how well does the offeror implement an additional SDK or API to enhance data processing, transfer, automation, or other programming options?
- f) If offered, how well does offeror implement the ability to add public spectral libraries and generate internal spectral libraries in interpretive software?
- g) If offered, how well does the offeror provide tools to enhance adjustments, masking, and fixes to the spectral datacube?
- h) How well does the offeror estimate both separate camera and total spectral datacube size volumes (GB) generated by standard 100 cm by 30 cm core cox with 3 core rows?
- i) How well does offeror estimate peak bandwidth rates reached during active scanning?
- j) How well does the offeror implement in-house systems not requiring remote cloud transfer, storage, or processing?

6) General:

- a) How well has the offeror demonstrated a thorough understanding of the purpose and scope of the project and identified pertinent issues and potential problems related to the project?
- b) How well has the offeror demonstrated an understanding of the deliverables and the time schedule the State expects to be provided?

SEC. 5.06 METHODOLOGY USED FOR THE PROJECT (5%)

Proposals will be evaluated against the questions set out below:

- 1) How comprehensive is the methodology and does it depict a logical approach to fulfilling the requirements of the RFP?
- 2) How well does the methodology match and achieve the objectives set out in the RFP?
- 3) Does the methodology interface with the time schedule in the RFP?

SEC. 5.07 MANAGEMENT PLAN FOR THE PROJECT (5%)

Proposals will be evaluated against the questions set out below:

- 1) How well does the management plan support all of the project requirements and logically lead to the deliverables required in the RFP?
- 2) How well is accountability completely and clearly defined?
- 3) Is the organization of the project team clear?
- 4) How well does the management plan illustrate the lines of authority and communication?
- 5) To what extent does the offeror already have the hardware, software, equipment, and licenses necessary to perform the contract?
- 6) Does it appear that the offeror can meet the schedule set out in the RFP?
- 7) Has the offeror gone beyond the minimum tasks necessary to meet the objectives of the RFP?
- 8) To what degree is the proposal practical and feasible?
- 9) To what extent has the offeror identified potential problems?

SEC. 5.08 CONTRACT COST (25%)

Overall, a minimum of 40% of the total evaluation points will be assigned to cost. After the procurement officer applies any applicable preferences, the offeror with the lowest total cost will receive the maximum number of points allocated to cost per 2 AAC 12.260(c). The point allocations for cost on the other proposals will be determined using the following formula:

$$[(\text{Price of Lowest Cost Proposal}) \times (\text{Maximum Points for Cost})] \div (\text{Cost of Each Higher Priced Proposal}).$$

Example (Max Points for Contract Cost = 50):

Step 1

List all proposal prices, adjusted where appropriate by the application of applicable preferences claimed by the offeror.

Offeror #1	\$40,000
Offeror #2	\$42,750
Offeror #3	\$47,500

Step 2

In this example, the RFP allotted 50% of the available 100 points to cost. This means that the lowest cost will receive the maximum number of points.

Offeror #1 receives 50 points.

The reason they receive that amount is because the lowest cost proposal, in this case \$40,000, receives the maximum number of points allocated to cost, 50 points.

Offeror #2 receives 46.78 points.

$\$40,000 \text{ lowest cost} \times 50 \text{ maximum points for cost} = 20,000,000 \div \$42,750 \text{ cost of Offeror \#2's proposal} = 46.78$

Offeror #3 receives 42.10 points.

$\$40,000 \text{ lowest cost} \times 50 \text{ maximum points for cost} = 20,000,000 \div \$47,500 \text{ cost of Offeror \#3's proposal} = 42.10$

SEC. 5.09 ALASKA OFFEROR PREFERENCE (10%)

Per 2 AAC 12.260, if an offeror qualifies for the Alaska Bidder Preference, the offeror will receive an Alaska Offeror Preference. The preference will be 10% of the total available points, which will be added to the offeror's overall evaluation score.

Example:

Step 1

Determine the number of points available to qualifying offerors under this preference:

100 Total Points Available in RFP x 10% Alaska Offeror preference = 10 Points for the preference

Step 2

Determine which offerors qualify as Alaska bidders and thus, are eligible for the Alaska Offeror preference. For the purpose of this example, presume that all proposals have been completely evaluated based on the evaluation criteria in the RFP. The scores at this point are:

Offeror #1	83 points	No Preference	0 points
Offeror #2	74 points	Alaska Offeror Preference	10 points
Offeror #3	80 points	Alaska Offeror Preference	10 points

Step 3

Add the applicable Alaska Offeror preference amounts to the offerors' scores:

Offeror #1	83 points
Offeror #2	84 points (74 points + 10 points)
Offeror #3	90 points (80 points + 10 points)

Offeror #3 is the highest scoring offeror and would get the award, provided their proposal is responsive and responsible.

SECTION 6. GENERAL PROCESS AND LEGAL INFORMATION

SEC. 6.01 INFORMAL DEBRIEFING

When the contract is completed, an informal debriefing may be performed at the discretion of the project manager or procurement officer. If performed, the scope of the debriefing will be limited to the work performed by the Contractor.

SEC. 6.02 ALASKA BUSINESS LICENSE AND OTHER REQUIRED LICENSES

Prior to the award of a contract, an offeror must hold a valid Alaska business license. However, in order to receive the Alaska Bidder Preference and other related preferences, such as the Alaska Veteran Preference and Alaska Offeror Preference, an offeror must hold a valid Alaska business license prior to the deadline for receipt of proposals. Offerors should contact the **Department of Commerce, Community and Economic Development, Division of Corporations, Business, and Professional Licensing, PO Box 110806, Juneau, Alaska 99811-0806**, for information on these licenses. Acceptable evidence that the offeror possesses a valid Alaska business license may consist of any one of the following:

- copy of an Alaska business license;
- certification on the proposal that the offeror has a valid Alaska business license and has included the license number in the proposal;
- a canceled check for the Alaska business license fee;
- a copy of the Alaska business license application with a receipt stamp from the State's occupational licensing office; or
- a sworn and notarized statement that the offeror has applied and paid for the Alaska business license.

You are not required to hold a valid Alaska business license at the time proposals are opened if you possess one of the following licenses and are offering services or supplies under that specific line of business:

- fisheries business licenses issued by Alaska Department of Revenue or Alaska Department of Fish and Game,
- liquor licenses issued by Alaska Department of Revenue for alcohol sales only,
- insurance licenses issued by Alaska Department of Commerce, Community and Economic Development, Division of Insurance, or
- Mining licenses issued by Alaska Department of Revenue.

Prior to the deadline for receipt of proposals, all offerors must hold any other necessary applicable professional licenses required by Alaska Statute.

SEC. 6.03 SITE INSPECTION

The State may conduct on-site visits to evaluate the offeror's capacity to perform the contract. An offeror must agree, at risk of being found non-responsive and having its proposal rejected, to provide the State reasonable access to relevant portions of its work sites. Individuals designated by the procurement officer at the State's expense will make site inspection.

SEC. 6.04 CLARIFICATION OF OFFERS

In order to determine if a proposal is reasonably susceptible for award, communications by the procurement officer or the proposal evaluation committee (PEC) are permitted with an offeror to clarify uncertainties or eliminate confusion concerning the contents of a proposal. Clarifications may not result in a material or substantive change to the proposal. The evaluation by the procurement officer or the PEC may be adjusted as a result of a clarification under this section.

SEC. 6.05 DISCUSSIONS WITH OFFERORS

The State may conduct discussions with offerors in accordance with AS 36.30.240 and 2 AAC 12.290. The purpose of these discussions will be to ensure full understanding of the requirements of the RFP and proposal. Discussions will be limited to specific sections of the RFP or proposal identified by the procurement officer. Discussions will only be held with offerors who have submitted a proposal deemed reasonably susceptible for award by the procurement officer. Discussions, if held, will be after initial evaluation of proposals by the procurement officer or the PEC. If modifications are made as a result of these discussions, they will be put in writing. Following discussions, the procurement officer may set a time for best and final proposal submissions from those offerors with whom discussions were held. Proposals may be reevaluated after receipt of best and final proposal submissions.

If an offeror does not submit a best and final proposal or a notice of withdrawal, the offeror's immediate previous proposal is considered the offeror's best and final proposal.

Offerors with a disability needing accommodation should contact the procurement officer prior to the date set for discussions so that reasonable accommodation can be made. Any oral modification of a proposal must be reduced to writing by the offeror.

SEC. 6.06 EVALUATION OF PROPOSALS

The procurement officer, or an evaluation committee made up of at least three State employees or public officials, will evaluate proposals. The evaluation will be based solely on the evaluation factors set out in SECTION 5. EVALUATION CRITERIA AND CONTRACTOR SELECTION.

After receipt of proposals, if there is a need for any substantial clarification or material change in the RFP, an amendment will be issued. The amendment will incorporate the clarification, or change, and a new date and time established for new or amended proposals. Evaluations may be adjusted as a result of receiving new or amended proposals.

SEC. 6.07 CONTRACT NEGOTIATION

After final evaluation, the procurement officer may negotiate with the offeror of the highest-ranked proposal. Negotiations, if held, shall be within the scope of the request for proposals and limited to those items which would not have an effect on the ranking of proposals. If the highest-ranked offeror fails to provide necessary information for negotiations in a timely manner, or fails to negotiate in good faith, the State may terminate negotiations and negotiate with the offeror of the next highest-ranked proposal. If contract negotiations commence, they will be held via teleconference.

If the contract negotiations take place the procurement officer will provide a dial in teleconference number.

SEC. 6.08 FAILURE TO NEGOTIATE

If the selected offeror

- fails to provide the information required to begin negotiations in a timely manner; or
- fails to negotiate in good faith; or
- indicates they cannot perform the contract within the budgeted funds available for the project; or
- if the offeror and the State, after a good faith effort, simply cannot come to terms,

the State may terminate negotiations with the offeror initially selected and commence negotiations with the next highest ranked offeror.

SEC. 6.09 OFFEROR NOTIFICATION OF SELECTION

After the completion of contract negotiation, the procurement officer will issue a written Notice of Intent to Award and send copies of that notice to all offerors who submitted proposals. The notice will set out the names of all offerors and identify the offeror selected for the award.

SEC. 6.10 PROTEST

AS 36.30.560 provides that an interested party may protest the content of the RFP.

An interested party is defined in 2 AAC 12.990(a) (7) as "an actual or prospective bidder or offeror whose economic interest might be affected substantially and directly by the issuance of a contract solicitation, the award of a contract, or the failure to award a contract."

If an interested party wishes to protest the content of a solicitation, the protest must be received, in writing, by the procurement officer at least 10 days prior to the deadline for receipt of proposals.

AS 36.30.560 also provides that an interested party may protest the award of a contract or the proposed award of a contract.

If an offeror wishes to protest the award of a contract or the proposed award of a contract, the protest must be received, in writing, by the procurement officer within 10 days after the date the Notice of Intent to Award the contract is issued.

A protester must have submitted a proposal in order to have sufficient standing to protest the proposed award of a contract. Protests must include the following information:

- the name, address, and telephone number of the protester;
- the signature of the protester or the protester's representative;
- identification of the contracting agency and the solicitation or contract at issue;
- a detailed statement of the legal and factual grounds of the protest including copies of relevant documents; and the form of relief requested.

Protests filed by telex or telegram are not acceptable because they do not contain a signature. Fax copies containing a signature are acceptable.

The procurement officer will issue a written response to the protest. The response will set out the procurement officer's decision and contain the basis of the decision within the statutory time limit in AS 36.30.580. A copy of the decision will be furnished to the protester by certified mail, fax or another method that provides evidence of receipt.

All offerors will be notified of any protest. The review of protests, decisions of the procurement officer, appeals, and hearings, will be conducted in accordance with the State Procurement Code (AS 36.30), Article 8 "Legal and Contractual Remedies."

SEC. 6.11 APPLICATION OF PREFERENCES

Certain preferences apply to all State contracts, regardless of their dollar value. The Alaska Bidder, Alaska Veteran, and Alaska Offeror preferences are the most common preferences involved in the RFP process. Additional preferences that may apply to this procurement are listed below. Guides that contain excerpts from the relevant statutes and codes, explain when the preferences apply and provide examples of how to calculate the preferences are available at the following website: [Application Of Preferences](#).

- Alaska Products Preference - AS 36.30.332
- Recycled Products Preference - AS 36.30.337
- Local Agriculture and Fisheries Products Preference - AS 36.15.050
- Employment Program Preference - AS 36.30.321(b)
- Alaskans with Disabilities Preference - AS 36.30.321(d)
- Alaska Veteran's Preference - AS 36.30.321(f)

The Division of Vocational Rehabilitation in the Department of Labor and Workforce Development keeps a list of qualified employment programs and individuals who qualify as persons with a disability. As evidence of a business' or an individual's right to the Employment Program or Alaskans with Disabilities preferences, the Division of Vocational Rehabilitation will issue a certification letter. To take advantage of these preferences, a business or individual must be on the appropriate Division of Vocational Rehabilitation list prior to the time designated for receipt of proposals. Offerors must attach a copy of their certification letter to the proposal. **An offeror's failure to provide this certification letter with their proposal will cause the State to disallow the preference.**

SEC. 6.12 ALASKA BIDDER PREFERENCE

An Alaska Bidder Preference of 5% will be applied to the price in the proposal. The preference will be given to an offeror who:

- 1) holds a current Alaska business license prior to the deadline for receipt of proposals;
- 2) submits a proposal for goods or services under the name appearing on the offeror's current Alaska business license;
- 3) has maintained a place of business within the state staffed by the offeror, or an employee of the offeror, for a period of six months immediately preceding the date of the proposal;
- 4) is incorporated or qualified to do business under the laws of the state, is a sole proprietorship and the proprietor is a resident of the state, is a limited liability company (LLC) organized under AS 10.50 and all members are residents of the state, or is a partnership under AS 32.06 or AS 32.11 and all partners are residents of the state; and
- 5) if a joint venture, is composed entirely of ventures that qualify under (1)-(4) of this subsection.

Alaska Bidder Preference Certification Form

In order to receive the Alaska Bidder Preference, the proposal must include the Alaska Bidder Preference Certification Form attached to this RFP. An offeror does not need to complete the Alaska Veteran Preference questions on the form if not claiming the Alaska Veteran Preference. An offeror's failure to provide this completed form with their proposal will cause the State to disallow the preference.

SEC. 6.13 ALASKA VETERAN PREFERENCE

An Alaska Veteran Preference of 5%, not to exceed \$5,000.00, will be applied to the price in the proposal. The preference will be given to an offeror who qualifies under AS 36.30.990(2) as an Alaska bidder and is a:

- A. sole proprietorship owned by an Alaska veteran;
- B. partnership under AS 32.06 or AS 32.11 if a majority of the partners are Alaska veterans;
- C. limited liability company organized under AS 10.50 if a majority of the members are Alaska veterans; or
- D. corporation that is wholly owned by individuals, and a majority of the individuals are Alaska veterans.

In accordance with AS 36.30.321(i), the bidder must also add value by actually performing, controlling, managing, and supervising the services provided, or for supplies, the bidder must have sold supplies of the general nature solicited to other state agencies, other government, or the general public.

Alaska Veteran Preference Certification

In order to receive the Alaska Veteran Preference, the proposal must include the Alaska Bidder Preference Certification Form attached to this RFP. An offeror's failure to provide this completed form with their proposal will cause the State to disallow the preference.

SEC. 6.14 STANDARD CONTRACT PROVISIONS

The Contractor will be required to sign the State's Standard Contract Form for Goods and Non-Professional Services (form SCF.DOC/Appendix A). This form is attached with the RFP for your review. The Contractor must comply with the contract provisions set out in this attachment. No alteration of these provisions will be permitted without prior written approval from the Department of Law, and the State reserves the right to reject a proposal that is non-compliant or takes exception with the contract terms and conditions stated in the Agreement. Any requests to change language in this document (adjust, modify, add, delete, etc.), must be set out in the offeror's proposal in a separate document. Please include the following information with any change that you are proposing:

- 1) Identify the provision that the offeror takes exception to.
- 2) Identify why the provision is unjust, unreasonable, etc.
- 3) Identify exactly what suggested changes should be made.

SEC. 6.15 QUALIFIED OFFERORS

Per 2 AAC 12.875, unless provided for otherwise in the RFP, to qualify as an offeror for award of a contract issued under AS 36.30, the offeror must:

- 1) Add value in the contract by actually performing, controlling, managing, or supervising the services to be provided; or
- 2) Be in the business of selling and have actually sold on a regular basis the supplies that are the subject of the RFP.

If the offeror leases services or supplies or acts as a broker or agency in providing the services or supplies in order to meet these requirements, the procurement officer may not accept the offeror as a qualified offeror under AS 36.30.

SEC. 6.16 PROPOSAL AS PART OF THE CONTRACT

Part of or all of this RFP and the successful proposal may be incorporated into the contract.

SEC. 6.17 ADDITIONAL TERMS AND CONDITIONS

The State reserves the right to add terms and conditions during contract negotiations. These terms and conditions will be within the scope of the RFP and will not affect the proposal evaluations.

SEC. 6.18 HUMAN TRAFFICKING

By signature on their proposal, the offeror certifies that the offeror is not established and headquartered or incorporated and headquartered in a country recognized as Tier 3 in the most recent United States Department of State's Trafficking in Persons Report.

The most recent United States Department of State's Trafficking in Persons Report can be found at the following website: <https://www.state.gov/trafficking-in-persons-report/>

Failure to comply with this requirement will cause the State to reject the proposal as non-responsive or cancel the contract.

SEC. 6.19 RIGHT OF REJECTION

Offerors must comply with all of the terms of the RFP, the State Procurement Code (AS 36.30), and all applicable federal, state, and local laws, codes, and regulations. The procurement officer may reject any proposal that does not comply with all of the material and substantial terms, conditions, and performance requirements of the RFP.

Offerors may not qualify the proposal nor restrict the rights of the State. If an offeror does so, the procurement officer may determine the proposal to be a non-responsive counteroffer and the proposal may be rejected.

Minor informalities that:

- do not affect responsiveness;
- are merely a matter of form or format;
- do not change the relative standing or otherwise prejudice other offers;
- do not change the meaning or scope of the RFP;
- are trivial, negligible, or immaterial in nature;
- do not reflect a material change in the work; or
- do not constitute a substantial reservation against a requirement or provision;

may be waived by the procurement officer.

The State reserves the right to refrain from making an award if it determines that it is not in the best interest of the State.

A proposal from a debarred or suspended offeror shall be rejected.

SEC. 6.20 STATE NOT RESPONSIBLE FOR PREPARATION COSTS

The State will not pay any cost associated with the preparation, submittal, presentation, or evaluation of any proposal.

SEC. 6.21 DISCLOSURE OF PROPOSAL CONTENTS

All proposals and other material submitted become the property of the State of Alaska and may be returned only at the State's option. AS 40.25.110 requires public records to be open to reasonable inspection. All proposal information, including detailed price and cost information, will be held in confidence during the evaluation process and prior to the time a Notice of Intent to Award is issued. Thereafter, proposals will become public information.

The Office of Procurement and Property Management (OPPM), or their designee recognizes that some information an offeror submits might be confidential under the United States or the State of Alaska Constitution, a federal statute or regulation, or a State of Alaska statute: i.e., might be Confidential Business Information (CBI). *See, e.g.*, article 1, section 1 of the Alaska Constitution; AS 45.50.910 – 45.50.945 (the Alaska Uniform Trade Secrets Act); *DNR v. Arctic Slope Regional Corp.*, 834 P.2d 134, 137-39 (Alaska 1991). For OPPM or their designee to treat information an offeror submits with its proposal as CBI, the offeror must do the following when submitting their proposal: (1) mark the specific information it asserts is CBI; and (2) for each discrete set of such information, identify, in writing, each authority the offeror asserts make the information CBI. If the offeror does not do these things, the information will become public after the Notice of Intent to Award is issued. If the offeror does these things, OPPM or their designee will evaluate the offeror's assertion upon receiving a request for the information. If OPPM or their designee rejects the assertion, they will, to the extent permitted by federal and State of Alaska law, undertake reasonable measures to give the offeror an opportunity to object to the disclosure of the information.

SEC. 6.22 ASSIGNMENT

Per 2 AAC 12.480, the Contractor may not transfer or assign any portion of the contract without prior written approval from the procurement officer.

SEC. 6.23 DISPUTES

A contract resulting from this RFP is governed by the laws of the State of Alaska. If the Contractor has a claim arising in connection with the agreement that it cannot resolve with the State by mutual agreement, it shall pursue the claim, if at all, in accordance with the provisions of AS 36.30.620 – AS 36.30.632. To the extent not otherwise governed by the preceding, the claim shall be brought only in the Superior Court of the State of Alaska and not elsewhere.

SEC. 6.24 SEVERABILITY

If any provision of the contract or agreement is declared by a court to be illegal or in conflict with any law, the validity of the remaining terms and provisions will not be affected; and the rights and obligations of the parties will be construed and enforced as if the contract did not contain the particular provision held to be invalid.

SEC. 6.25 SUPPLEMENTAL TERMS AND CONDITIONS

Proposals must comply with Section 6.19 Right of Rejection. However, if the State fails to identify or detect supplemental terms or conditions that conflict with those contained in this RFP or that diminish the State's rights under any contract resulting from the RFP, the term(s) or condition(s) will be considered null and void. After award of contract:

If conflict arises between a supplemental term or condition included in the proposal and a term or condition of the RFP, the term or condition of the RFP will prevail; and

If the State's rights would be diminished as a result of application of a supplemental term or condition included in the proposal, the supplemental term or condition will be considered null and void.

SEC. 6.26 SOLICITATION ADVERTISING

Public notice has been provided in accordance with 2 AAC 12.220.

SEC. 6.27 FEDERALLY IMPOSED TARIFFS

Changes in price (increase or decrease) resulting directly from a new or updated federal tariff, excise tax, or duty, imposed after contract award may be adjusted during the contract period or before delivery into the United States via contract amendment.

- **Notification of Changes:** The Contractor must promptly notify the procurement officer in writing of any new, increased, or decreased federal excise tax or duty that may result in either an increase or decrease in the contract price and shall take appropriate action as directed by the procurement officer.
- **After-imposed or Increased Taxes and Duties:** Any federal excise tax or duty for goods or services covered by this contract that was exempted or excluded on the contract award date but later imposed on the Contractor during the contract period, as the result of legislative, judicial, or administrative action may result in a price increase provided:
 - a) The tax or duty takes effect after the contract award date and isn't otherwise addressed by the contract.
 - b) The Contractor warrants, in writing, that no amount of the newly imposed federal excise tax or duty or rate increase was included in the contract price, as a contingency or otherwise.

- **After-relieved or Decreased Taxes and Duties:** The contract price shall be decreased by the amount of any decrease in federal excise tax or duty for goods or services under the contract, except social security or other employment taxes, that the Contractor is required to pay or bear, or does not obtain a refund of, through the Contractor's fault, negligence, or failure to follow instructions of the procurement officer.
- **State's Ability to Make Changes:** The State reserves the right to request verification of federal excise tax or duty amounts on goods or services covered by this contract and increase or decrease the contract price accordingly.
- **Price Change Threshold:** No adjustment shall be made to the contract price under this clause unless the amount of the adjustment exceeds \$250.

SECTION 7. ATTACHMENTS

SEC. 7.01 ATTACHMENTS

Attachments:

- 1) Standard Contract Form for Goods and Non-Professional Services with Appendix A General Conditions;
- 2) Certification of Entitlement to the Alaska Bidder Preference;
- 3) Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion;
- 4) Cost Proposal.
- 5) Alaska Geologic Materials Center overview and installation location for HSI;
- 6) Vendor HSI specification form for *Understanding of the Project* performance scores in Section 5.05 *Outline for Performance Indicators*;
- 7) Statistical data profiling of GMC energy core box dimensions; and
- 8) Statistical data profiling of GMC mineral core box dimensions.

ATTACHMENT 1

STANDARD CONTRACT FORM

Goods and Non-Professional Services

The parties' contract comprises this Standard Contract Form, as well as its referenced Articles and their associated Appendices.

1. Agency Contract Number	2. Contract Title	3. Agency Fund Code See Appendix D	4. Agency Appropriation Code See Appendix D
5. Vendor Number	6. IRIS Document ID #	7. Alaska Business License Number	
This contract is between the State of Alaska,			
8. Department of		Division	Hereafter the State, and
9. Contractor		Hereafter the Contractor	
Mailing Address	Street or P.O. Box	City	State ZIP+4
<p>10. Article 1. Appendices: Appendices referred to in this contract and attached to it are considered part of it.</p> <p>Article 2. Performance of Service:</p> <p>2.1 Appendix A (General Provisions), Articles 1 through 16, governs the performance of services under this contract.</p> <p>2.2 Appendix B sets forth the liability and insurance provisions of this contract.</p> <p>2.3 Appendix C sets forth the services to be performed by the Contractor.</p> <p>Article 3. Period of Performance: The period of performance for this contract begins _____, and ends _____.</p> <p>Article 4. Considerations:</p> <p>4.1 In full consideration of the Contractor's performance under this contract, the State shall pay the Contractor a sum not to exceed \$_____ in accordance with the provisions of Appendix D.</p> <p>4.2 When billing the State, the Contractor shall refer to the Authority Number or the Agency Contract Number and send the billing to:</p>			
11. Department of		Attention: Division of	
Mailing Address		Attention:	
12. CONTRACTOR		13. CONTRACTING AGENCY	
Name of Firm		Department/Division	
Signature of Authorized Representative		Signature of Procurement Officer	
Typed or Printed Name of Authorized Representative		Typed or Printed Name of Procurement Officer	
Date		Date	

NOTICE: This contract has no effect until signed by the contracting agency.

SCF.DOC (Rev. 04/14)

APPENDIX A

GENERAL CONDITIONS

1. Inspections and Reports

The department may inspect, in the manner and at reasonable times it considers appropriate, all of the Contractor's facilities and activities under this contract. The Contractor shall make progress and other reports in the manner and at the times the department reasonable requires.

2. Suitable Materials, Etc.

Unless otherwise specified, all materials, supplies, or equipment offered by the Contractor shall be new, unused, and of the latest edition, version, model, or crop and of recent manufacture.

3. Disputes

If the Contractor has a claim arising in connection with the contract that it cannot resolve with the State by mutual agreement, it shall pursue the claim, if at all, in accordance with the provisions of AS 36.30.620-AS 36.30.632.

4. Default

In case of default by the Contractor, for any reason whatsoever, the State of Alaska may procure the goods or services from another source and hold the Contractor responsible for any resulting excess cost and may seek other remedies under law or equity.

5. No Assignment or Delegation

The Contractor may not assign or delegate this contract, or any part of it, or any right to any of the money to be paid under it, except with the written consent of the Procurement Officer.

6. No Additional Work or Material

No claim for additional supplies or services, not specifically provided in this contract, performed or furnished by the Contractor, will be allowed, nor may the Contractor do any work or furnish any material not covered by the contract unless the work or material is ordered in writing by the Procurement Officer.

7. Independent Contractor

The Contractor and any agents and employees of the Contractor act in an independent capacity and are not officers or employees or agents of the State in the performance of this contract.

8. Payment of Taxes

As a condition of performance of this contract, the Contractor shall pay all federal, state, and local taxes incurred by the Contractor and shall require their payment by any subcontractor or any other persons in the performance of this contract. Satisfactory performance of this paragraph is a condition precedent to payment by the State under this contract.

9. Compliance

In the performance of this contract, the Contractor must comply with all applicable federal, state, and borough regulations, codes, and laws, and be liable for all required insurance, licenses, permits, and bonds.

10. Conflicting Provisions

Unless specifically amended and approved by the Department of Law, the terms of this contract supersede any provisions the Contractor may seek to add. The Contractor may not add additional or different terms to this contract; AS 45.02.207(b)(1). The Contractor specifically acknowledges and agrees that, among other things, provisions in any documents it sees to append hereto that purport to (1) waive the State of Alaska's sovereign immunity, (2) impose indemnification obligations on the State of Alaska, or (3) seek to limit liability of the Contractor for acts of Contractor negligence, are expressly superseded by this contract and are void.

11. Officials Not to Benefit

The Contractor must comply with all applicable federal or state laws regulating ethical conduct of public officers and employees.

12. Contract Prices

Contract prices for commodities must be in U.S. funds and include applicable federal duty, brokerage fees, packaging, and transportation cost to the FOB point so that upon transfer of title the commodity can be utilized without further cost. Prices for services must be in U.S. funds and include applicable federal duty, brokerage fee, packaging, and transportation cost so that the services can be provided without further cost.

13. Contract Funding

Contractors are advised that funds are available for the initial purchase and/or the first term of the contract. Payment and performance obligations for succeeding purchases and/or additional terms of the contract are subject to the availability and appropriation of funds.

14. Force Majeure

The parties to this contract are not liable for the consequences of any failure to perform, or default in performing, any of their obligations under this Agreement, if that failure or default is caused by any unforeseeable Force Majeure, beyond the control of, and without the fault or negligence of, the respective party. For the purposes of this Agreement, Force Majeure will mean war (whether declared or not); revolution; invasion; insurrection; riot; civil commotion; sabotage; military or usurped power; lightning; explosion; fire; storm; drought; flood; earthquake; epidemic; quarantine; strikes; acts or restraints of governmental authorities affecting the project or directly or indirectly prohibiting or restricting the furnishing or use of materials or labor required; inability to secure materials, machinery, equipment or labor because of priority, allocation or other regulations of any governmental authorities.

15. Contract Extension

Unless otherwise provided, the State and the Contractor agree: (1) that any holding over of the contract excluding any exercised renewal options, will be considered as a month-to-month extension, and all other terms and conditions shall remain in full force and effect, and (2) to provide written notice to the other party of the intent to cancel such month-to-month extension at least 30 days before the desired date of cancellation.

16. Severability

If any provision of the contract is declared by a court to be illegal or in conflict with any law, the validity of the remaining terms and provisions will not be affected; and the rights and obligations of the parties will be construed and enforced as if the contract did not contain the particular provision held to be invalid.

17. Continuing Obligation of Contractor

Notwithstanding the expiration date of this contract, the Contractor is obligated to fulfill its responsibilities until warranty, guarantee, maintenance and parts availability requirements have completely expired.

18. Governing Law; Forum Selection

This contract is governed by the laws of the State of Alaska. To the extent not otherwise governed by Article 3 of this Appendix, any claim concerning this contract shall be brought only in the Superior Court of the State of Alaska and not elsewhere.

ATTACHMENT 2

CERTIFICATION OF ENTITLEMENT TO THE ALASKA BIDDER PREFERENCE

I am the offeror or a duly authorized agent of the offeror, and I certify that the offeror is entitled to the Alaska Bidder Preference. I know and understand that the Alaska Bidder Preference provides substantial benefits which could be favorable to the offeror, and which could affect the award of the Request for Proposals to the offeror's benefit. I am aware that falsely claiming the Alaska Bidder Preference is a violation of the State of Alaska Procurement Code (AS 36.30) and may be cause for felony prosecution and conviction.

I offer the following evidence or statements in support of my Certification of Entitlement to the Alaska Bidder Preference:

1. As of the deadline for receipt of the proposal, the offeror possesses a valid Alaska business license in any one of the following forms:
 - a copy of an Alaska business license;
 - certification on the proposal that the offeror has a valid Alaska business license and has included the license number in the proposal;
 - a canceled check for the Alaska business license fee;
 - a copy of the Alaska business license application with a receipt stamp from the State's occupational licensing office; *OR*
 - a sworn notarized affidavit that the offeror has applied and paid for the Alaska business license.
2. In addition to holding a current Alaska business license prior to the deadline for receipt of proposals, the offeror:
 - (a) is submitting a proposal for goods or services under the name appearing on the offeror's current Alaska business license;
 - (b) has maintained a place of business within the state staffed by the offeror, or an employee of the offeror, for a period of six months immediately preceding the date of the bid;
 - (c) is incorporated or qualified to do business under the laws of the state, is a sole proprietorship, and the proprietor is a resident of the state, is a Limited Liability Company (LLC) organized under AS 10.50 and all members are residents of the state, or is a partnership under AS 32.06 or AS 32.11 and all partners are residents of the state; *AND*
 - (d) if a joint venture, is composed entirely of ventures that qualify under items (a)-(c) of this subsection.

Signature of Offeror or Offeror's Authorized Agent

Date

Printed Name

ATTACHMENT 3

CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY, AND VOLUNTARY EXCLUSION LOWER TIER COVERED TRANSACTIONS

This certification is required by the regulations implementing Executive Order 12549, Debarment and Suspension, 29 CFR Part 98, Section 98.510, Participant's responsibilities. The regulations were published as Part VII of the May 26, 1988, Federal Register (pages 19160-19211).

**(BEFORE COMPLETING CERTIFICATION, READ THE INSTRUCTIONS ON THE FOLLOWING PAGE WHICH ARE
AN INTEGRAL PART OF THE CERTIFICATION)**

The prospective recipient of federal assistance funds certifies, by submission of this bid, that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

Where the prospective recipient of federal assistance funds is unable to certify to any of the Statements in this certification, such prospective participant shall attach an explanation to this Proposal.

Name of Representative: _____.

Title of Representative: _____.

Signature: _____.

Date: _____.

1. Is this company enrolled in the Federal System for Awards Management (SAM)? YES NO
2. If Yes, please provide either the DUNS Number _____ or the Cage Code _____.
3. If No, the company must be enrolled in SAM before a contract can be signed or payment made on a contract involving federal funds. Failure to do so will result in cancellation of the contract.

INSTRUCTIONS FOR CERTIFICATION

1. By signing and submitting this Proposal, the prospective recipient of federal assistance funds is providing the certification as set out below.
2. The certification in this class is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective recipient of federal assistance funds knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the Department of Labor (DOL) may pursue available remedies, including suspension and/or debarment.
3. The prospective recipient of federal assistance funds shall provide immediate written notice to the person to whom this Proposal is submitted if at any time the prospective recipient of federal assistance funds learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
4. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "Proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the person to which this Proposal is submitted for assistance in obtaining a copy of those regulations.
5. The prospective recipient of federal assistance funds agrees by submitting this Proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the DOL.
6. The prospective recipient of federal assistance funds further agrees by submitting this Proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transactions," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.
7. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may but is not required to check the List of Parties Excluded from Procurement or Non-procurement Programs.
8. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
9. Except for transactions authorized under paragraph 5 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the DOL may pursue available remedies, including suspension and/or debarment.

ATTACHMENT 4

COST PROPOSAL FORM

Offerors are to submit their cost using this Cost Proposal Form. Costs offered are to remain firm for the duration of the contract and are to include all costs associated with providing required services, including, but not limited to, direct and indirect costs, payroll, supplies, equipment, overhead, travel, and profit. Failure to complete and submit this Cost Proposal form will result in rejection of the offer as being non-responsive.

Offerors must be aware this is a Request for Proposal process. Cost is only one of the factors that will be used to evaluate proposals submitted in response to this RFP. Other factors that will be evaluated are outlined in Section 5 Evaluation Criteria and Contractor Selection of this RFP.

1. HYPERSPECTRAL SCANNING INSTRUMENT

ITEM	DESCRIPTION	TOTAL COST
1.	Cost of Hyperspectral Scanning Instrument (includes: shipping/delivery, installation, training, services, warranty costs)	\$ _____

2. PREFERENCE CERTIFICATION:

ITEM	QUESTION	YES	NO
1.	Does your company qualify for the Alaska Bidder's Preference?		
2.	Does your company qualify for the Alaska Veteran's Preference? If yes, provide a copy of your DD 214 with your service/social security number, date of birth, and other Privacy Act protected information redacted or "inked" out.		
3.	Does your company qualify for the Alaskans with Disabilities preference? If yes, you must provide a copy of your certification letter issued by the Division of Vocational Rehabilitation to receive this preference.		
4.	Does your company qualify for the Employment Program Preference? If yes, you must provide a copy of your certification letter issued by the Division of Vocational Rehabilitation to receive this preference.		

3. OFFEROR CERTIFICATION:

Does the Offeror meet the minimum requirement in Sec. 1.04 Minimum Requirements?

YES ☐ NO ☐

Company Name:
Authorized Representative's Printed Name:
Authorized Representative's Signature:
Date Cost Proposal Signed:

END OF COST PROPOSAL FORM

ATTACHMENT 5

ALASKA GEOLOGICAL MATERIALS CENTER OVERVIEW AND INSTALLATION LOCATION FOR HSI



Hours & Location

Monday - Friday
8:30am - 4:30pm
Closed for State Holidays

3651 Penland Parkway
Anchorage, AK 99508
[Find us on Google Maps](#)

GMC related links

Web site: <https://dggs.alaska.gov/gmc/>
Inventory interface: <https://maps.dggs.alaska.gov/gmc/>
Annual report (pg. 44): <https://dggs.alaska.gov/webpubs/dggs/ar/text/ar2022.pdf>
Digitization related webinars: <https://dggs.alaska.gov/pubs/id/30878>

GMC contact information for Anchorage

Project Manager
Kurt Johnson, Curator
Kurt.johnson@alaska.gov
1.907.754.3597
(same address as above)

Division of Geological & Geophysical Surveys contact information for Financial.

Sonja Zastrow
Administrative Officer, [Director's Office](#)
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(907) 451-5002
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ATTACHMENT 6
OUTLINE FOR PERFORMANCE INDICATORS

Weighted score percentages apply only within RFP Sec. 5.05.

Section		Required	Preferred	GMC Remark	Vendor Feedback
	1. Certification, standards, performance, testing, and calibration (30%)	Yes		Detailed reports.	
	1.1. Certification (RFP Sec. 5.05 – questions 1.a and 1.b) (6%)			Ready to operate in the United States.	
*	1.1.1.UL, CE, or TL	Yes		USA specific electrical certification	
*	1.1.2.Instrument calibration to NIST traceable standards		Yes		
*	1.1.3.IEEE P4001 standards		Yes	Characterization and calibration of HSI imaging devices.	
	1.2. Instrument performance and testing (RFP Sec. 5.05 – questions 1.c to 1.g) (20%)			See Section 4 of this attachment for general camera specifications.	
*	1.2.1.Calibration materials	Yes			
	1.2.1.1. Calibration board	Yes		Mylar, REE, or other reference materials to test platform operation.	
	1.2.1.2. White reflectance	Yes		Provided in 20% to 60% reflectance range.	
	1.2.1.3. Materials suite	Yes		Demonstrate strength, precision, and accuracy of signal scan.	
	1.2.1.3.1. A grey panel	Yes		SNR for VNIR/SWIR.	
	1.2.1.3.2. A gold or aluminum panel	Yes		SNR for MWIR/LWIR.	
	1.2.1.3.3. Mylar or PET	Yes		Wavelength calibration for SWIR and MWIR.	
	1.2.1.3.4. Quartz	Yes		Wavelength calibration for LWIR.	
	1.2.1.3.5. Ruby or REE oxide	Yes		Wavelength calibration for VNIR. (More difficult to source?)	
*	1.2.2.Environmental stability	Yes		Validates thermal, pressure, vibration, and electromagnetic systems compatibility.	
*	1.2.3.IR camera test reports	Yes		Do the individual scanner tools achieve high quality data results?	
	1.2.3.1. Spatial and spectral resolution	Yes		Across FOV and for all wavelengths.	
vital	1.2.3.2. Spatial and spectral misregistration	Yes		Across FOV and for all wavelengths.	
	1.2.3.3. Spatial and spectral responsivity	Yes		Across FOV and for all wavelengths.	
	1.2.3.4. Peak signal/noise ratio (SNR)	Yes		Function of radiance, integration time, and binning.	
	1.2.3.5. Signal/noise ratio (SNR)	Yes		Function of wavelength, radiance, integration time, and binning.	
	1.2.3.6. Noise equivalence spectral radiance (NESR)	Yes		Function of radiance, dark current by integration time, F#, and binning (NER) across wavelengths.	
	1.2.3.7. Dynamic range	Yes			
	1.2.3.8. Bad pixel map	Yes			
	1.2.3.9. Polarization dependence		Yes	Optional.	
	1.2.3.10. Stray light		Yes	Optional.	
	1.2.3.11. Second order suppression		Yes	Has filter? Optional	
	1.2.3.12. Shutter efficiency		Yes	100% across FOV (optional).	
	1.2.3.13. Camera vibration		Yes	From translation apparatus, cooling (optional)?	
	1.2.3.14. Other				
*	1.2.4.RGB camera	Yes			

	1.2.4.1. Spatial misregistration	Yes			
	1.2.4.2. Bad pixel map	Yes			
	1.2.4.3. Camera vibration	Yes			
*	1.2.5.Laser profiler	Yes			
	1.2.5.1. Spatial misregistration	Yes			
	1.2.5.2. Camera vibration	Yes			
*	1.3. List calibration data supplied with instrument (RFP Sec. 5.05 – questions 1.h and 1.i) (2%)				
	1.3.1.Baseline camera measurement retention	Yes			
	1.3.2.Camera drift monitoring	Yes		Detect long-term shifts in sensor output.	
*	1.4. Post-delivery performance tests (RFP Sec. 5.05 – questions 1.j and 1.k) (2%)			Expert committee should be satisfied with quality of scanned borehole data.	
	1.4.1.Spectral calibration	Yes			
	1.4.2.Onsite qualification of systems	Yes			
*	1.4.3.Transparency for instrument characterization procedures	Yes		How are procedures documented	
	2. Documentation (5%)			Learning through documentation, documentation and more documentation.	
*	2.1. Site preparation and installation (RFP Sec. 5.05 – question 2.a) (1%)	Yes			
	2.1.1.Facility utility systems				
	2.1.1.1. Electrical supply side				
	2.1.1.2. Network				
	2.1.2.Workstations setup				
	2.1.3.Platform setup				
	2.1.3.1. Unpack				
	2.1.3.2. Mount base				
	2.1.3.3. Instrument side utility systems				
	2.1.3.3.1. Electrical integration				
	2.1.3.3.2. Network integration				
	2.1.4.Post-shipping testing				
	2.1.4.1. Camera re-alignment				
	2.1.4.2. Instrument testing				
	2.1.4.3. Systems testing				
*	2.2. Standard operating procedures (RFP Sec. 5.05 – question 2.b) (1%)	Yes			
	2.2.1.User interface				
	2.2.1.1. Scan settings				
	2.2.1.2. Error codes				
	2.2.1.3. Troubleshooting				
	2.2.1.4. Active scan visualization				
	2.2.2.Maintenance				
	2.2.2.1. Complex or remote troubleshooting and repair				
	2.2.2.2. Local Maintenance				
	2.2.3.Acquisition and processing			Document transparent steps to achieve results.	

	2.2.3.1. Scan errors				
	2.2.3.2. Quality assurance				
	2.2.3.3. Co-registration				
	2.2.3.4. Normalization				
*	2.3. Data creation, retention, and access (RFP Sec. 5.05 – question 2.c) (1%)	Yes		Document transparent steps to achieve results.	
	2.3.1.Dark and white reference panels				
	2.3.2.Raw, radiance, and reflectance data cubes			Created in open source or industry standard.	
	2.3.2.1. Data cube structures				
	2.3.2.2. Format				
	2.3.2.3. Detailed structure			Detail structure of all components and ability to modify or fix data.	
	2.3.2.3.1. Header			Created in open source or industry standards.	
	2.3.2.3.2. Body				
	2.3.2.4. Ability to restructure				
	2.3.2.5. Other files				
*	2.4. Post-processing interpretive algorithms (RFP Sec. 5.05 – question 2.d) (1%)	Yes		Document transparent steps to achieve results.	
*	2.5. Software development – SDK and/or API (RFP Sec. 5.05 – question 2.e) (1%)		Yes	Very useful if available (optional).	
	3. HSI platform specifications (40%)				
*	3.1. Platform tolerances and specifications (RFP Sec. 5.05 – question 3.a) (4%)				
	3.1.1.Operating temperature	Yes		Warehouse temperature range (High/low 15-25C).	
	3.1.2.Dust sensitivity	Yes		Low dust content in warehouse, except possibly when moving box lids.	
	3.1.3.Stability in earthquakes	Yes		Ability to fix platform ground supports to concrete slab.	
*	3.2. Physical instrument size (installed) (RFP Sec. 5.05 – question 3.b) (6%)			Opening is 6.1 m wide, requires 1.5 and 2.1 m aisles on either side.	
	3.2.1.Weight	Yes			
	3.2.2.Height	Yes			
	3.2.3.Width	Yes			
	3.2.4.Length	Yes			
	3.2.5.Connex housing option	Yes		Can HSI be operated from within standard 20 x8 foot connex?	
	3.2.5.1. Weight	Yes			
	3.2.5.2. Height	Yes			
vital	3.2.5.3. Width	Yes		Warehouse space is limited, platform width should be less than 2.5 m.	
	3.2.5.4. Length	Yes			
	3.2.5.5. Includes removable connex wheels		Yes	Are 4 removable wheels included to move connex across concrete floor?	
*	3.3. Instrument side engineering for utilities (RFP Sec. 5.05 – question 3.c) (4%)				
	3.3.1.US listing agency (UL, CE, TL) tag location	Yes		Easy to locate on instrument.	
	3.3.2.Utility cables platform connection location(s)		Yes	Convenient panel-based cable connections.	
	3.3.3.Power requirements	Yes		For connection to facility-side 30-4w 3-phase 120/208v subpanel.	
	3.3.3.1. Voltage	Yes			
	3.3.3.2. Phase	Yes			
	3.3.3.3. Operating load	Yes			

	3.3.3.4. Overcurrent protection	Yes			
	3.3.3.5. Electric breaker subpanel		Yes		
	3.3.3.6. Number of electrical connections	Yes			
	3.3.3.7. Other power remarks				
	3.3.4.Network requirements	Yes		Network Ethernet switch.	
	3.3.4.1. Internal network bandwidth capacity		Yes	10GBase-T - Need scan per box/per time calculation vs. network speed.	
	3.3.4.2. WIFI bridge		No	Not to be used by facility.	
	3.3.4.3. External connection panel/whips		Yes		
	3.3.4.4. External LAN port (RJ45)	Yes			
	3.3.4.5. Recommended external cable rating	Yes			
	3.3.4.6. Required number of cable drops	Yes			
	3.3.4.7. Other network remarks				
	3.3.5.PLC motor	Yes			
	3.3.5.1. Specifications	Yes			
	3.3.5.2. Inputs and outputs	Yes			
*	3.4. Materials handling (RFP Sec. 5.05 – question 3.d) (8%)				
	3.4.1.Warmup time	Yes			
	3.4.2.Operating height	Yes		Platform work surface height should be about 80 cm.	
	3.4.3.Queuing area	Yes			
	3.4.3.1. Integration into external box handling systems		Yes	Capacity to tie into external box handing systems such as ball or roller tables.	
	3.4.3.2. Box pre-staging		Yes	Rotate boxes.	
	3.4.3.3. Box alignment		Yes	Standardize box position to initiate scan.	
	3.4.4.Sample box transportation stage	Yes			
	3.4.4.1. Translation type	Yes		Conveyor belt, lift platform, or table (UAV?)	
	3.4.4.1.1. Spatial resolution	Yes		Achieve 1 mm to 250 μm minimum resolution along translation axis.	
	3.4.4.1.2. Movement - Accuracy/precision	Yes		How to determine?	
	3.4.4.1.3. Vibration or smoothness of movement		Yes	How to determine?	
	3.4.4.1.4. User speed control	Yes		Settings range high/low in mm/sec.	
	3.4.4.2. Workflow	Yes			
	3.4.4.2.1. Direction		Yes	Box pass-through or box return to front. Return to front preferred.	
	3.4.4.2.2. Throughput	Yes		Approximately 160 two-foot, five-row boxes or greater per 6 hour day.	
vital	3.4.4.3. Box accommodation	Yes		*** See Attachments 8 and 9 for detailed core boxes size distributions ***	
	3.4.4.3.1. Width		Yes	Preferred 61 cm or more (100% mineral boxes, ~100% energy boxes), or 51 cm minimum.	
	3.4.4.3.2. Height		Yes	Preferred 21 cm or more.	
	3.4.4.3.3. Length		Yes	Preferred 161 cm or more.	
	3.4.4.3.4. Weight		Yes	Preferred 30 kg or more.	
	3.4.4.4. Weigh sample capability		Yes		
	3.4.4.5. Common instruments FOV	Yes		All instruments need common FOV that accommodates box width (cm).	

*	3.5. Integrated sensor tool and lighting capacity (RFP Sec. 5.05 – question 3.e) (10%)				
	3.5.1.RGB camera	Yes		High-resolution equivalent to 24-to-50-megapixel camera, 8+-bit per channel.	
	3.5.2.IR cameras	Yes		To cover most wavelengths in the 400 to 15,000 nm band (approx.).	
	3.5.2.1. VNIR	Yes		To cover most wavelengths in the 400 to 1,000 nm band (approx.).	
	3.5.2.2. SWIR	Yes		To cover most wavelengths in the 1,000 to 2,700 nm band (approx.).	
	3.5.2.3. MIR	Yes		To cover most wavelengths in the 2,700 to 6,000 nm band (approx.).	
	3.5.2.4. LWIR	Yes		To cover most wavelengths in the 6,000 to 15,000 nm band (approx.).	
	3.5.3.Camera scan type		Yes	Push broom preferred.	
	3.5.4.3D laser surface profiler		Yes	Height resolution of 15 µm or finer and spatial resolution of 25 µm or finer.	
	3.5.5.Light source specifications	Yes		To reduce noise, shadow, reflection, contrast, and oversaturation.	
	3.5.5.1. FOV coverage	Yes		Angle.	
	3.5.5.2. Bulb type	Yes		Incandescent, fluorescent, infrared, LED, or other.	
	3.5.5.3. Intensity	Yes		Variable?	
	3.5.5.4. Uniform quality	Yes			
	3.5.5.5. Changeable	Yes		Ability to change and find replacement bulbs.	
*	3.6. Tool flexibility (RFP Sec. 5.05 – question 3.f) (2%)		Yes	Optional	
	3.6.1.Modular IR field camera support		Yes	Deploy cameras to other outdoor scan setting (optional).	
	3.6.2.Upgradable cameras		Yes	Reuse platform, change out sensor tools (optional).	
	3.6.3.Field support equipment required			Optional.	
*	3.7. User control of scan cycle processes (RFP Sec. 5.05 – question 3.g) (4%)				
vital	3.7.1.Barcode scanning capability	Yes		Laser scanner preferred.	
	3.7.1.1. Read barcode or simple QR tags	Yes			
	3.7.1.2. Movable hand scanner	Yes		Barcodes are located on front (98%) or side (2%) box lid.	
	3.7.2.Accept pre-scan metadata from facility database		Yes		
	3.7.2.1. Reduce manual entry		Yes		
	3.7.2.2. Inject unique barcode/inventory_id into scan metadata	Yes		Into either text file or datacube header.	
	3.7.2.3. Consume database metadata to automate scan parameters		Yes	Metadata can be copied into the header files of each datacube, using the barcodes.	
	3.7.3.User setup parameters	Yes			
	3.7.3.1. Focusing	Yes		Ease of adjustment and support for confirmation of correct focus zone.	
	3.7.3.2. Integration time	Yes		Range of user selectable times.	
	3.7.3.3. Belt speed	Yes		Range of user selectable speeds.	
	3.7.3.4. Calibration timing	Yes			
	3.7.3.5. Maximum scan cycle time	Yes		In seconds for 1 meter box (approx.).	
	3.7.3.6. Minimum scan cycle time	Yes		In seconds for 1 meter box (approx.).	
	3.7.3.7. Dark reference	Yes		Taken how often - per scan, other.	
	3.7.3.8. White reference	Yes		Taken how often - per scan, other.	
	3.7.4.Real-time feedback	Yes		Types of feedback after scan completed.	
	3.7.4.1. Scan error indications	Yes			

	3.7.4.2. Quality assurance	Yes			
	3.7.4.3. Cameras co-registration confirmation	Yes			
	3.7.5.Rescan capabilities	Yes			
	4. Camera specifications (10%)				
*	4.1. RGB camera (RFP Sec. 5.05 – question 4.a) (1%)			High resolution.	
	4.1.1.Sensor type	Yes		CCD or CMOOS.	
	4.1.2.Color depth	Yes		8 or 10-bit – 10-bit preferred.	
	4.1.3.Spatial resolution (across track)	Yes		4000 to 8000 px across line scan, 8K preferred.	
	4.1.4.White balance	Yes		Auto, preset, manual.	
	4.1.5.f/ number range	Yes			
	4.1.6.Depth of field range	Yes			
	4.1.7.Scan type or mode	Yes		Sweep line / push broom line / frame area.	
	4.1.7.1. Optional: spatial resolution	Yes		For full frame capture.	
	4.1.7.2. Scan rate	Yes			
	4.1.8.Image format	Yes		TIFF, JPG, RAW, other.	
*	4.2. IR cameras (RFP Sec. 5.05 – question 4.b) (8%)			For each IR camera model.	
	4.2.1.Sensor model	Yes			
	4.2.2.Detector / sensor type	Yes		CCD, cm OS, MCT, InGaAs, other.	
	4.2.3.Wavelength dispersion device	Yes		Filter, grating, prism, other.	
	4.2.4.Scan type	Yes			
	4.2.4.1. Track		Yes	Sweep line / push broom line (preferred) / frame area.	
	4.2.4.2. Technique	Yes		FTIR, ?	
	4.2.5.Heat control	Yes			
	4.2.5.1. Cooling device	Yes		Peltier, Stirling, TEC, other.	
	4.2.5.2. Components cooled	Yes		Sensor chip, camera system, other.	
	4.2.5.3. Operating temperature range	Yes			
	4.2.6.Power consumption	Yes			
	4.2.7.Spectral range	Yes		nm	
	4.2.8.Spectral bands	Yes			
	4.2.9.Spectral resolution	Yes		nm	
	4.2.10. Spectral FWHM	Yes		<x bands (Nyquist) (full width at half maximum).	
	4.2.11. Spatial FWHM	Yes		<x pixels.	
	4.2.12. FOV	Yes			
	4.2.13. Spatial pixels (across track)	Yes			
	4.2.14. Bit resolution	Yes		12, 16, other (raw data).	
	4.2.15. f/ number	Yes			
	4.2.16. Dynamic range	Yes			
	4.2.17. Noise floor	Yes		e-	
	4.2.18. Peak SNR	Yes		<x	

	4.2.19. Region of interest (ROI)	Yes		Single, multiple, other.	
	4.2.20. Maximum frame rate	Yes		fps	
	4.2.21. Smile	Yes		<x% of band.	
	4.2.22. Keystone	Yes		<x% of pixel.	
	4.2.23. Stray light	Yes		High, low.	
	4.2.24. Time frame tags	Yes		Milliseconds, other.	
*	4.3. 3D profiler (RFP Sec. 5.05 – question 4.c) (1%)				
	4.3.1.Height resolution	Yes		µm	
	4.3.2.Spatial resolution	Yes		µm	
	4.3.3.Scan type	Yes		Line, push broom?	
	4.3.4.Scan rate	Yes			
	4.3.5.FOV	Yes			
	4.3.6.Image type	Yes			
	4.3.7.Cooling	Yes		?	
	5. IT support (15%)				
*	5.1. Included support term (RFP Sec. 5.05 – questions 5.a & 5.b) (4%)				
	5.1.1.Operating system migration	Yes		Software support including migration to vendor supported OS.	
	5.1.2.Software support term	Yes			
	5.1.2.1. Initial term	Yes		5-years (negotiable).	
	5.1.2.2. Option to extend	Yes			
	5.1.3.Upgradability and research	Yes		Continuing development.	
	5.1.3.1. Firmware	Yes			
	5.1.3.2. Software	Yes			
	5.1.4.Required features	Yes		Operate independently from WAN access.	
*	5.2. Workstation hardware specifications (RFP Sec. 5.05 – question 5.c) (1%)			Performance capacity to handle data capture and real-time processing demands.	
	5.2.1.Monitor	Yes			
	5.2.1.1. Size		Yes	23”+	
	5.2.1.2. Panel		Yes	IPS	
	5.2.1.3. Resolution		Yes	2K	
	5.2.2.Ram and motherboard combination		Yes	ECC support.	
	5.2.3.PSU		Yes	Platinum-level, 12+4 pin connector, modular cabling.	
	5.2.4.CPU			Company selected.	
	5.2.5.GPU		Yes	If required.	
	5.2.6.USB	Yes		USB C	
	5.2.7.Data storage	Yes			
	5.2.7.1. Device	Yes		SSD	
	5.2.7.2. Capacity to store	Yes		One week of scan storage.	
	5.2.7.3. Storage array redundancy	Yes			
	5.2.8.Network	Yes			

	5.2.8.1. Wired	Yes		1 GB/sec minimum (wired access only).	
	5.2.8.2. Make data available	Yes		Share drive on network to move data to permanent storage.	
*	5.3. Software capacity and monitoring (RFP Sec. 5.05 – question 5.d) (4%)				
	5.3.1.Acquisition stage	Yes			
	5.3.1.1. Start-up procedures	Yes			
	5.3.1.2. Setting scan parameters	Yes			
	5.3.1.2.1. Settings easily accessed	Yes			
	5.3.1.2.2. Settings feedback	Yes			
	5.3.1.3. Scan initiation	Yes		Semi-automated.	
	5.3.1.4. Post scan real-time QA/QC panel	Yes			
	5.3.1.4.1. Ability to quickly view scan for errors		Yes		
	5.3.1.4.2. Check list		Yes		
	5.3.1.4.2.1. Completed header		Yes		
	5.3.1.4.2.2. Required reference panels		Yes		
	5.3.1.4.2.3. Proper focus		Yes		
	5.3.1.4.2.4. Over- or under-saturation warning		Yes		
	5.3.1.4.2.5. Error codes		Yes		
	5.3.1.4.2.6. Other				
	5.3.1.4.3. Clean code panel indicator to proceed		Yes		
	5.3.1.5. Rescan capabilities	Yes		Convenient rescan features.	
	5.3.1.5.1. Automatic removal of bad data	Yes			
	5.3.1.5.2. Retention of appropriate meta or other data	Yes			
	5.3.2.Pre-processing stage	Yes			
	5.3.2.1. Radiometric calibration	Yes			
	5.3.2.2. Converting from radiance to reflectance	Yes			
	5.3.3.Post-processing interpretive stage		Yes	Describe post-processing interpretive algorithms for determination of mineralogy or other analysis of the available spectral datasets (optional).	
	5.3.3.1. Mineral interpretation list		Yes		
	5.3.3.2. Zones or texture maps		Yes		
	5.4. Other data processing specification (RFP Sec. 5.05 – questions 5.e to 5.j) (6%)	Yes			
*	5.4.1.SDK and/or API		Yes	Helpful to develop in-house enhancements (optional).	
*	5.4.2.Ability to automate tasks		Yes		
	5.4.2.1. Integrate barcode scanner	Yes			
	5.4.2.2. Retrieve metadata from database		Yes		
	5.4.2.3. Inject inventory_id and/or barcode		Yes		
	5.4.2.4. Inject box metadata		Yes		
*	5.4.3.Spectral libraries		Yes	Optional.	
	5.4.3.1. Add public datasets		Yes		
	5.4.3.2. Generate internal datasets		Yes		

*	5.4.4.Datacube specifications	Yes			
	5.4.4.1. Interval adjustment and segmentation		Yes	Optional.	
	5.4.4.2. Masking and overscan cleaning		Yes	Optional.	
	5.4.4.3. Integrate external analytical data		Yes	Such as integrate one XRF scan per box (optional).	
*	5.4.4.4. Data volume estimates	Yes		For scanning 100 cm by 30 cm core box scan with 1mm spatial resolution.	
	5.4.4.4.1. RGB	Yes		x GB/scan	
	5.4.4.4.2. IR	Yes		x GB by each camera	
	5.4.4.4.3. Reference panels	Yes		x GB	
	5.4.4.4.4. 3D surface profile	Yes		x GB	
	5.4.4.4.5. Total data volume	Yes		x GB	
*	5.4.4.5. Box scan time estimate	Yes		Estimate potential peak scan network bandwidth demands.	
Vital	5.4.5.In-house functionality of IT processes	Yes		System capabilities do not require access to outside storage or processing capabilities to store and generate reflectance spectral datacube.	
	6. Company profile			See main document, Section 1.04.	
	6.1. Overview (RFP Sec. 1.04 – questions 1 to 3)				
*	6.1.1.History of commercial technologies	Yes		Capable to design, develop, and produce electro optical devices.	
*	6.1.2.Long-term stability	Yes			
*	6.1.3.ISO 9001:2015 certification	Yes		Management standards implemented.	
*	6.1.4.Research	Yes		Active use of electro optics for geologic analysis.	
	6.1.4.1. Collaboration with external R&D projects	Yes			
	6.1.4.2. Ongoing internal projects	Yes			
*	6.2. Company experience with geologic scanning (RFP Sec. 1.04 – question 4)				
	6.2.1.Production environment	Yes			
	6.2.2.Optimized to scan geologic core trays	Yes		Tested workflow.	
	6.2.3.Flexible to scan variety of geologic samples	Yes		Cuttings, hand samples.	
	6.2.4.Ability to generate, quality assure, transform, and coregister both raw and reflectance spectral datasets	Yes			
*	6.3. Product maturity (RFP Sec. 1.04 – question 5)				
	6.3.1.Hardware	Yes		Offers in production or development model.	
	6.3.2.Firmware	Yes		At production status, partially incomplete, or in development.	
	6.3.3.Software	Yes		At production status, partially incomplete, or in development.	
	6.3.4.Development holes	Yes		Known problems? If under current development to patch these deficits?	
*	6.4. Guarantee (RFP Sec. 1.04 – question 6)				
	6.4.1.Warranty	Yes		1 to 4 years	
	6.4.2.Ability to maintain and offer replacement parts	Yes		Guaranties list of replacement parts for critical items across life cycle of instrument.	
	6.4.3.Ability to extend support		Yes		
	6.4.4.Dead pixel policy	Yes		Initial and per year	
*	6.5. Instrument life cycle (RFP Sec. 1.04 – question 7)				
	6.5.1.Periodic maintenance	Yes		Annual	

	6.5.2.Mechanical platform	Yes		Estimate of life cycle.	
	6.5.3.Camera sensors	Yes		Estimate of life cycle.	
*	6.6. Support (RFP Sec. 1.04 – question 8)				
	6.6.1.Training	Yes			
	6.6.1.1. Local	Yes			
	6.6.1.2. Remote	Yes		Remote desktop sessions.	
	6.6.2.Online/phone	Yes			
	6.6.3.Support desk		Yes		
	6.6.4.Troubleshooting	Yes		Ease of local vs remote troubleshooting.	
	6.6.5.Repair	Yes		Break down how to proceed, along with timeframes, for fixing when machine breaks down – including online help, sending engineers, replacement parts, etc...	
	6.6.5.1. Local	Yes		Outline troubleshooting options for local staff.	
	6.6.5.2. Company engineer	Yes		Outline repair options to deploy company staff.	