

Request for Proposals

Confederated Tribes of the Umatilla Indian Reservation

46411 Timine Way, Pendleton, OR 97801

CTUIR LiDAR and Orthoimagery Data Collection 2026



Contractors Invited to Bid the Project: All licensed contractors with and without Indian preference.

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541-429-7227

Critical Dates:

Request for Clarification Deadline:	January 9, 2026
Proposal Submission Deadline:	January 23, 2026
Tentative Award Selection (est.):	February 13, 2026
Award Notification (est.):	February 20, 2026
Project Initiation (est.):	April 1, 2026
Project Completion:	November 1, 2026

Request for Proposal

Part I – General Information and RFP Process

LIDAR and Orthoimagery Data Collection within the Treaty area of the CTUIR

1.1 Project Purpose

The Confederated Tribes of the Umatilla Indian Reservation (CTUIR) utilizes traditional provisions or First Foods for providing the framework in natural resource management (Quaempts et al. 2018). A major component of preserving First Foods is protecting and enhancing the habitats which sustain them. The CTUIR Department of Natural Resource Forestry Program are implementing forest management projects on the Umatilla Indian Reservation.

The CTUIR is accepting proposals for collection, processing and delivery of LIDAR data, orthoimagery and vegetation cover classification dataset of areas within the Umatilla Indian Reservation, located in Umatilla County, Oregon.

1.2 Scope of the RFP

This RFP is to acquire airborne terrestrial LiDAR and orthoimagery data within the surveyed treaty area for the Confederated Tribes of the Umatilla Indian Reservation. The final size of the area to be surveyed is dependent on acquisition costs but includes roughly 368 square miles. Data products to deliver include digital elevation models (DEMs) of the bare earth, highest hits and intensity as well as vegetation structure products including canopy cover height and percentage, canopy density, fractional coverage, understory vegetation density and height. A classified point cloud defined by vegetation cover (low, mid, high), ground, building, water, and other. High resolution, high geographic accuracy aerial imagery delivered as mosaic dataset. A report including methods, results, and accuracy assessment and appropriate metadata (minimum FGDC standard) must accompany the delivered data.

This Request for Proposals ("RFP") provides the specific services to be contracted as well as due dates, information concerning the preparation and submittal of Proposals, an explanation of how Proposals will be evaluated, and terms and conditions of the contract that may be awarded as a result of the RFP.

1.3 Project Timeline:

The data collection period for this effort will be during peak vegetation growth on days with no cloud cover which could extend from May 15th to July 30th, 2026. Post survey data QA\QC and analysis will be completed within 60 days of the date of collection. Final delivery of data from the contractor to the CTUIR shall occur before October 30th, 2026.

1.4 Closing Date for Submissions

The closing date for submissions will be **January 23rd at 4:00 p.m.**, prevailing local time. Proposals received after the specified time will not be considered. Contractors must submit one electronic copy of their Proposal to: stacyschumacher@ctuir.org

1.5 Necessary Information

Proposals must contain all information requested in the RFP. The CTUIR will not consider additional information submitted after the Closing Date and may reject incomplete proposals.

1.6 Cost of Proposals

The CTUIR shall not be liable for any expenses incurred by Contractors in either preparing or submitting Proposals, evaluation/selection, or contract negotiation process, if any.

1.7 Request for Clarification

Contractors may submit a written request for clarification by January 9th, 2026. The CTUIR will not consider any requests submitted after the time period specified above. Questions regarding the RFP or request for clarification shall be sent to the RFP contact listed in Part 1.4.

1.8 Response to Requests for Clarification

The CTUIR will promptly respond to each properly submitted written request for clarification.

1.9 Proposals Constitute Firm Offers

Submission of a Proposal constitutes Contractor's affirmation that all terms and conditions of the Proposal constitute a binding offer that shall remain firm for a period of ninety (90) days from the Closing Date.

1.10 Signature Required; Proposer Affirmations

An authorized representative of the Contractor must sign the original Proposal in ink. Contractor's signature and submission of a signed Proposal in response to the RFP constitute Contractor's affirmation that the Contractor agrees to be bound by the terms and conditions of the RFP and by all terms and conditions of the Contract awarded.

1.11 Type of Contract

The CTUIR shall execute a Subcontract for Technical Services.

1.12 Confidential Information

Proposals are confidential until the evaluation and selection process has been completed and the CTUIR has issued a notice of tentative award. Only the total price will be made publicly available at the bid opening. Any information a Contractor submits in response to the RFP that the Contractor considers a trade secret under ORS 192.501(2) or confidential

proprietary information, and Contractor wishes to protect from public disclosure, must be clearly labeled with the following:

“This information constitutes a trade secret under ORS 192.501(2) or confidential proprietary information and is not to be disclosed except in accordance with the Oregon Public Records Law, ORS Chapter 192.”

1.13 Requests for Further Clarification of Proposals

The CTUIR may request additional clarification from Contractors on any portion of the Proposal.

1.14 Cancellation of RFP

The CTUIR may cancel this RFP at any time upon finding that it is in the CTUIR's best interest to do so.

1.15 Rejection of Proposals

The CTUIR may reject a particular Proposal or all Proposals upon finding that it is in the CTUIR's best interest to do so.

1.16 Tentative Award and Contract Negotiations

The CTUIR will provide a written tentative award notice to the highest-ranking Contractor, selected based on the process described in Part IV. The CTUIR will enter into negotiations with the highest ranking Contractor on the following contract terms: (a) Contract tasks; (b) Staffing; (c) Performance Schedule; and (d) A maximum, not to exceed Contract price, which is consistent with the Quote and fair and reasonable to the CTUIR, taking into account the estimated value, scope, complexity, and nature of the services to be provided. The CTUIR may also negotiate the statement of work and, at its discretion, add to the scope of services based on a contractor's recommendations (but still within the scope of this RFP) or reduce the scope of services.

Final award will be contingent upon successful negotiation of a contract within 14 days after the tentative award.

Final award is contingent on funding from USDA Forest Service, Urban and Community Forest Program awarded 2025 to Confederated Tribes of the Umatilla Indian Reservation.

The CTUIR may terminate negotiations with the highest ranked Contractor if they fail to result in a contract within a reasonable time. The CTUIR will then enter into negotiations with the second ranked Contractor, and if necessary the third ranked Contractor. If the second or third round of negotiations fails to result in a contract, the CTUIR may formally terminate the solicitation.

1.17 Protest of Tentative Award Selection

A notification of tentative award to the highest-ranked Contractor will be mailed to all Contractors that submitted a Proposal in response to this RFP. A Contractor who claims to have been adversely affected by the selection of a competing Contractor shall have seven (7) calendar days after receiving the notice of selection to submit a written protest of the selection to the RFP contact. The CTUIR will not consider protests submitted after the date established in this Part. The protest must specify the grounds upon which the Protest is based.

1.18 Award

After expiration of the seven (7)-calendar day selection protest period and resolution of all protests, the CTUIR will proceed with final award.

1.19 Investigation of References

The CTUIR reserves the right to investigate the references and past performance of any Contractor with respect to its successful performance of similar services, compliance with RFP and contractual obligations, and its lawful payment of suppliers, sub-contractors, and employees. The CTUIR may postpone award or execution of the contract after the announcement of the apparent successful Contractor in order to complete its investigation. The CTUIR reserves the right to reject any proposal at any time prior to the execution of any resulting contract.

1.20 Amendments

The CTUIR reserves the right to amend the resulting Contract from this RFP. Amendments could include but are not limited to, changes in the statement of work, extension of time and consideration changes for the Contractor. All amendments shall be in writing and signed by all approving parties before becoming effective. Only the CTUIR has the final authority to execute changes, notices or amendments to Contract.

PART II – SERVICES TO BE PROVIDED

Scope of Work

The Confederated Tribes of the Umatilla Indian Reservation (CTUIR) is requesting proposals for collection, processing and delivery of terrestrial LiDAR and several derived datasets of areas of the diminished boundary and outlying properties. The goal of the effort is to acquire data to inform wildland urban interface hazards, update timber stand boundary information, inform fuels reduction practices, detect historical roads/skid trails and provide a visual inspection of dead or dying timber. A second goal is to acquire high resolution, high accuracy orthoimagery to update CTUIR's GIS library. The CTUIR requests that the contractor develop and submit bids on collection and processing of LIDAR data, derived datasets and orthoimagery collection to include the total area of interest (Appendix A).

Data products are to include raw las files, classified point cloud, digital elevation models (DEMs) of the bare earth, highest hits and intensity as well as vegetation structure products including canopy cover height and percentage, canopy density, fractional coverage, understory vegetation density and height. A classified point cloud defined by vegetation cover (low, mid, high), roads, building, water, and other. High resolution, high geographic accuracy 4-band digital orthoimagery delivered as mosaic dataset. ESRI shape files of desired area of coverage are available from the CTUIR to assist the contractor in planning.

Proposals should clearly explain the methodology your firm proposes to use to achieve the required results and should be clearly described (using tables and figures) within the proposal. Proposals must include all aspects of survey control, data acquisition and analysis, and Quality Control procedures used to collect the data and correct the data. Describe the attributes of the data as it is to be acquired, including laser pulse repetition rate; scan pattern, angle and worst-case spacing of laser shots cross

and along-track within a swath; number of GPS base stations used for accuracy and maximum distance from a station allowed. All proposals should state an estimate of the Root mean Square Error (RMSE) for the project in terms of accuracy for the topographic data.

The data collection period of this effort could extend from May 1st to July 30th, 2020. This date range allows for the acquisition of data during peak growing season and cloud free days. Post survey data, QA/QC and analysis should be completed within 60 days after data collection. Final delivery of data from the contractor to the CTUIR shall occur before November 1st, 2026, the anticipated end data of the contract.

Project Specifications

Proposals should include a clear strategy to implement the data collection. It is desired that a standard high-resolution sensor be utilized to capture ≥ 8 pulse/m² for terrestrial lidar data. The proposal should clearly identify solutions for classification of the point cloud and development of land cover geographic dataset.

Proposals should clearly explain the methodology your firm proposes to use to achieve the required results and should be clearly described (using tables and figures) within the proposal. Proposals must include all aspects of survey control, data acquisition and analysis, and Quality Control procedures used to collect the data. Describe the attributes of the data as it is to be acquired, including: laser pulse repetition rate; scan pattern, angle and rate; laser footprint diameter on the ground; number of returns per shot collected (i.e., first and last, or multiple); laser swath width, overlap between adjacent laser swaths, average and worst-case spacing of laser shots cross and along-track within a swath; number of GPS base stations used for accuracy and maximum distance from a station allowed. All proposals should state an estimate of the Root Mean Square Error (RMSE) for the project in terms of accuracy for the topographic data and imagery.

For first and last, or multiple returns per shot, state the minimum resolvable distance between returns. States of the amplitude of the laser return and scan angle are to be included as a part of the delivered data. For orthoimagery state the resolution, cell size, data type upon delivery, pixel depth and type and compression if used. List the software used to process the data, include the company name, version used and platform/operating system.

Methodology for deriving desired vegetation raster products should be described.

Required Equipment Standards

NIR LiDAR sensor that is 8-bit intensity and a resolution of ≥ 8 pulse/m².

4-band orthoimagery that is large image format digital camera in 4 bands (R, G,B and NIR)

Minimum Equipment Specifications

Proposed equipment should be sufficient to meet the minimum equipment requirements to complete the necessary work.

Materials and Services Furnished by the Contractor

The Contractor must supply all equipment and experienced operators necessary to complete the work specified in the contract. In addition, the contractor must furnish and cover:

1. All costs of equipment, operation and transportation.
2. An experienced, qualified supervisor for crew.
3. All required safety equipment and training for crew members in use of tools.
4. Designated representative to supervise contract operations and represent Contractor.

Regulations and Permits

The contractor shall, without additional expense to the CTUIR, be responsible for complying with any Federal, State, and/or Tribal Laws, Codes, and Regulations applicable to the performance of the work.

Team Competencies

The following are expected minimum consultant team competencies. One person might fill more than one role, and it is expected that proposals will include additional competencies as required.

- Project Manager
- GIS Manager

Timeline and Deliverables

The following are expected minimum deliverables and a proposed partial timeline. Final deliverables and timeline will be negotiated in the contracting process, and proposals that present creativity, efficiency, and/or novel approaches are strongly encouraged. Communication is highly encouraged throughout the data collection process.

- a. The scheduled date for completion of the Project is November 1st, 2026. The data will need to be acquired within the work window, on the average year this window should be no earlier than May 1st, 2026, and no later than July 30th 2026, with the goal of collecting data at peak vegetation growth on a cloud free day. The Contractor must complete all aspects of the work on, or before this completion date, unless completion is delayed due to conditions mutually agreed upon and designated in writing by the Contractor and the CTUIR.
- b. Once work commences, project work shall be ongoing. Work shall commence on a Monday-Friday schedule unless prior arrangements are made with the CTUIR. Any delay in daily production will be discussed and agreed upon through CTUIR.
- c. Work shall not commence until the work schedule is approved, then shall be continuous, unless weather conditions or circumstances beyond Contractor's control prevent working. The CTUIR must approve deviation from the approved work schedule in writing.

d. Deliverables

Topographic LiDAR

Point Cloud

- All returns, Las 1.4 format
Point files will include the following fields: X, Y,Z, Return Intensity, Return Number, Point Classification (ground, vegetation cover (low, mid, highest height) building, water, other), Scan Angle, Adjusted GPS Time

Surface Models

- Bare Earth DEM, 1 m resolution, ESRI Grid format
- Highest hit DEM, 1 m resolution, ESRI Grid format
- Relative Elevation Model (REM), 1 m resolution, FSR/ Grid format
- Intensity Images, 0.5 m resolution, GeoTiff format

Vectors

- Survey Boundaries, shapefile format
- Tile Delineation, shapefile format

Digital Orthophotos

Imagery

- Orthophoto tiles, 25 cm GSD/resolution or better, GeoTiff format

Vectors

- Survey Boundaries, shapefile format
- Orthophoto Index, shapefile format

Derived Vegetation Rasters

- Canopy cover height
- Canopy density
- Fractional coverage
- Understory vegetation density
- Understory vegetation height
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Geodatabase

- All raster and vector layers
- Previous LiDAR collection layers

Reporting

- Methods, Results, Accuracy Assessments
- FGDC-compliant Metadata

Coordinate System

- Projection: UTM Zone 11N
- Horizontal Datum: NAD83
- Vertical Datum: NAVD88 (GEOID12B)
- Units: Meters

Payment

One lump sum request for payment per bid item may be submitted to the CTUIR upon successful completion of the project bid item. Bid items include cost for data acquisition, cost for lidar and imagery processing, cost for derived vegetation datasets, and cost for data delivery with final report. Thirty percent of the total contractual cost will be withheld until final completion of the project. The Contractor shall contact the CTUIR to request final inspection of work for payment. The CTUIR will make the final payment within 30-60 days of receipt of an invoice following a final inspection that approves all work.

PART III - Proposal Requirements

For the purpose of this RFP, each interested Contractor will submit a proposal package to the Confederated Tribes of the Umatilla Indian Reservation (CTUIR) Department of Natural Resources, Forestry Program that includes the following sections and tabbed with the following headings.

1. COVER LETTER

A cover letter must express the Contractor's interest in the project and commitment to the obligations expressed in the RFP. This letter should include the original signature of an authorized representative of the Contractor and indicate that the Contractor accepts all of the terms and conditions contained in the RFP.

2. FIRM SUMMARY

The Contractor will provide general information regarding their particular firm. This should include information about the company size, location, contracting experience within the region, areas of expertise and types of services, staff longevity, staff capabilities and training, and experience with natural resource restoration work and associated construction.

3. ORGANIZATION STRUCTURE

Identify the individuals responsible for managing the project, conducting specific project tasks, and their experience conducting those tasks for your firm. The Contractor should also include an organizational chart showing lines of communication and decision-making hierarchy as well as any sub-contractors. If a team of individuals from multiple contracting firms are assembled, adequately describe the role of each team member.

4. FIRM QUALIFICATIONS AND EXPERIENCE

The proposal will list the qualifications and relevant project development experience of the Contractor and each team member in relationship to completing projects of similar nature and size.

Please identify a minimum of three LiDAR acquisition projects that are similar to the proposed projects which have been successfully completed within the last five years. Provide a brief description of each project, including the complexity of the project, size and dollar amount of project, completion date of project, and references for each of the projects. Reference information shall include the name and phone number of owner's representatives for the particular projects.

5. PROPOSED APPROACH OF SCOPE OF WORK

Describe the approach the Contractor proposes to complete the project as defined in the RFP and specifications. The contractor should provide enough detail in the proposed approach to fully articulate the Contractor's understanding of the scope and complexities of the project. Describe the method and approach the consultant proposes in order to complete the tasks outlined below from conception through final design. This section should include a description of the steps used to collect necessary data and information and the analysis and summary that will be completed.

6. PROJECT SCHEDULE AND ITEMIZED COST

Provide a detailed schedule describing all significant work tasks, how the individual tasks will be completed, the sequence in which they are to be performed, and the workers and equipment to be assigned, as well as a schedule for the overall project. Provide evidence that adequate management effort, support staff, technical compliance, and resources will be committed to the timely completion of the project. We will assess the realism of proposed completion dates, given the resources to be devoted to the work.

Your proposals should specifically address the following:

- Proposed starting and completion dates;
- Type and size of all equipment to be used, including any electronic data collection devices, and any other equipment to be used on site;
- Project managers, operators and workers and their duties on site;
- Describe the order you plan on completing the work outlined in the contract, and,
- A contingency plan if the contract time runs short.

Provide a lump sum line-item cost for each element of this proposal, provide a **cost per square mile** for the Terrestrial NIR LiDAR Data collection, and 4-Band Orthoimagery. Provide a lump sum line-item cost for derived data products and report. The **total price** and the **cost per square mile** prices for this work will be considered as part of the evaluation factors. The CTUIR project staff welcomes cost-effective alternatives to expedite the proposed implementation schedule; these alternatives **must** be provided as an additional line listed below the original cost of the completed proposal. If approved by CTUIR, the project design and specifications will be revised through design change and/or field change notices as applicable.

7. REFERENCES and PAST PERFORMANCE

References are required from at least three (3) projects similar to the proposed project. Include project name, contact name, address, and telephone number, a description of the project (i.e. type of work, location, size of the project and key personnel), project completion date, and the relationship of the contact person to the project referenced.

Past Performance. List all contracts for the past three years. To assess the past performance selection criteria, the CTUIR will assess such attributes as your history of cooperation with clients, and your history of performing quality and timely work. If the offeror has no history of past performance, a neutral rating will be given.

PART IV – Selection Criteria

I. COST: 50 points

- a. Lowest price will be considered for addressing all questions and completion of all tasks (50).

II. Adequacy of Technical Proposal: 25 points

- a. Proposal content and applicability of the approach for addressing and completing tasks (5).
- b. Approach explicitly connected to project goal/objectives (10); and,
- c. Adequacy of survey, modeling, and data collection in the proposals (10).

III. Past Performance: 10 points

- a. Demonstration of contracts completed on time over the last 5 years (5);
- b. Demonstration of contractor to effectively communicate with the client (5).

IV. Personnel Qualifications: 10 points

- a. Technical experience of principal project staff related to the project performance (5);
- b. Years of experience with similar projects (5); and,

V. Indian Preference: 5 points

Must meet these factors in order to secure Indian Preference status;

1. Membership in a Federally recognized Tribe;
2. Indian Ownership of 51% or more;

36The RFP process is designed to result in the selection of a contractor who demonstrates the capability to complete the work at the best value. CTUIR reserves the right to contract all or portions of the work to individual contractors. Upon completion of the review and selection process, the CTUIR will negotiate with the most responsive/responsible Contractor, as determined by the CTUIR, for the contract scope and price. The contract negotiated will be based on fair and reasonable compensation for the services required.

Part V - Attachments

Appendix A

