



NEZ PERCE TRIBE

Department of Fisheries Resources Management

Administration • Enforcement • Harvest • Production • Research • Resident Fish • Watershed



RESEARCH DIVISION

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Date: June 16, 2026

From: Ryan Kinzer, Fisheries Data Analysis Coordinator

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Re: Request for Proposals for DFRM Web Application Modernization and Existing Data Repository Integration

Background

The Nez Perce Tribe Department of Fisheries Resources Management (DFRM) maintains web-based applications that support fisheries monitoring, research, data management, reporting, and decision-making throughout the Snake River Basin. The primary applications includes a public facing website that utilizes a Django REST Framework backend, Angular frontend, and PostgreSQL database, and a restricted access centralized data management system (CDMS) utilizing an ASP.NET framework and MSSQL backend paired with an Angular frontend. Applications make use of Docker containers, GitHub source control, GitHub Actions for CI/CD workflows, and hosting on-premise and within the AWS infrastructure.

Scope of Services

The DFRM seeks a qualified contractor to assess, modernize, enhance, and support the integration of the two DFRM web applications while improving scalability, maintainability, security, usability, and long-term sustainability of the public facing web application. The selected contractor will also evaluate and potentially implement migration from an AWS-hosted infrastructure to an internally managed on-premise infrastructure.

The primary focus of the project is to enhance the usability of the public facing web application by integrating data housed in CDMS and other related databases to disseminate fisheries, harvest, habitat, and monitoring information through dashboards, reports, visualizations, maps, and public-facing data products.

Project Details

Objectives

The successful contractor will complete the following specific tasks on the public facing web application:

- Modernize existing architecture and software components.
- Improve usability, accessibility, and user experience.
- Improve system security and reliability.
- Improve development, testing, and deployment workflows.

- Integrate application services with CDMS and other fisheries monitoring databases.
- Develop public-facing and internal reporting capabilities.
- Evaluate and potentially implement migration to internal infrastructure for hosting.
- Establish a long-term support and maintenance strategy.

Implementation Plan

A proposed workflow to meet project objectives may include the necessary steps:

1. Technical Architecture Review:
 - a. Django/Angular Public Web Application
 - b. CDMS Restricted-access Data Repository
2. CDMS Integration Plan and Development
3. Application Enhancement and Modernization
 - a. Django REST API Enhancements
 - b. Angular Front-End Enhancements
 - c. Security Assessment and Remediation
4. Database Optimization
5. CI/CD and DevOps Improvements
6. Reporting, Dashboard, and GIS Development
7. Documentation and Training

Deliverables

The contractor shall evaluate, design, and implement solutions supporting:

- Review and update user authentication and authorization including role-based access control
- Develop public data portals connected to CDMS datasets
- Create dataset search, export and reporting tools
- Provide GIS-enabled data exploration
- Dashboard development
- API-based integration with internal and external systems
- Mobile-friendly and responsive design

Requirements

Contractors must have experience creating and maintaining web applications with the following technology stack: Python, Django REST Framework, C#, ASP.Net, and Angular. Contractors must also have experience creating a JavaScript build process and implementing front-end integration testing in support of a Continuous Integration/Continuous (CI/CD) Deployment environment. Contractors must be familiar with Docker containers for environment controls and the use of GitHub for source code versioning.

Proposal Details

Interested Contractors must submit a statement of their qualifications, client references, and a cost proposal. This submission must be responsive to the following items and may include supplemental material which further supports the contractor's ability to provide the services and requirements outlined.

Proposal

To simplify the evaluation and to assure each submission receives equal consideration; all proposals are to follow the format described in this section and will be subject to the same selection criteria listed below.

Statement of Qualifications

Title Page

Firm name; proposal title; address, website address, telephone number; primary contact person and an email address.

Cover Letter

Signed by the person or persons authorized to sign on behalf of the firm.

Team Experience and Other Qualifications:

- A description of the firm's overall capabilities and specific experience in support of completing the tasks listed in the project details; specifically with custom web programming solutions for integration of CDMS (C#, ASP.NET, MSSQL, and Angular) into a public facing web application utilizing a technology stack of Python, Django, PostgreSQL and Angular.
- A description of the firm's process for development, testing and deploying of updated programming, including communication.
- Timeline for addressing objectives and deliverables identified in the Scope of Services.
- Indicate the location of the office, the number of staff (by level), and who will perform the services. The Contractor should also include the lines of communication and decision-making hierarchy.
- A summary resume of professional qualifications and experience of the individuals the firm would assign to the project.
- Describe, in sufficient detail, any professional experience with tribal organizations the Contractor may have, including years of each engagement.
- Any other supplemental items (proprietary offerings, value-added services, cost saving measures, enhancements, Contractor specific offerings, etc.) that you feel should be brought to our attention and consideration in evaluating your qualifications. Please feel free to elaborate on examples that substantiate your ability to provide the expected specifications and requirements of this RFP.

Previous Client References

- A minimum of three references must be provided.
- Include contact names, business addresses, telephone numbers and email addresses of clients for which the firm implemented programs of a similar type and size within the last five years, including the cost and scope of work completed.

Cost Proposal

The estimated cost of performing the required scope of service and requirements must be detailed in a cost proposal. The total maximum estimated price is to contain all direct and indirect costs including all out-of-pocket expenses required to deliver the solution. Identify and describe any additional anticipated cost-based information. All costs must be listed separately, clearly identified, and un-bundled. Respondents should propose an hourly rate pricing scheme with a total not to exceed cost for the contract. GSA pricing rates would be appropriate as the Nez Perce Tribe is a federally recognized Tribal Government. Final pricing will be negotiated during contracting.

EVALUATION AND SELECTION CRITERIA

Proposals will be evaluated through a criteria-based selection process conducted by a review team. The following selection criteria will be used to evaluate the content of the written proposals based on a weighted scoring method totaling 100 points:

- Ability to meet the objectives and deliverables of the project as identified in the Scope of Services, as evidenced by previous similar work listed in the Statement of Qualifications and Client References. (25 points)
- Experience and qualification of the firm, as evidenced by the Statement of Qualifications (20 points)
- Description of the process for development, testing and implementation of updated programming, including communication. (15 points)
- Experience and qualifications of the staff assigned to the effort. (10 points)
- Timeline for implementation and addressing tasks identified in the Score of Services. (10 points)
- Cost Proposal/Price (10 points)
- Indian-owned, or other minority, or woman enterprises. (10 points)

Total evaluation points: 100

Selection Preference

The Nez Perce Tribe encourages participation by Tribal-owned businesses and firms with demonstrated experience working with Tribal governments and organizations. Applicable Tribal procurement policies and preference requirements may be applied during proposal evaluation.

The chosen contractor must comply with the Tribal Employment Rights Office (TERO) compliance plan. The details of the TERO compliance plan may be obtained from Melvin

Wheeler melvinw@nezperce.org or 208-843-7363.

Preference may be given to contractors with experience supporting fisheries programs, natural resource agencies, environmental programs, or scientific information systems. Selection preferences may include Certified Indian Business, Minority-Owned, Women-Owned or Disadvantaged Small Business.

The Nez Perce Tribe reserves the right to reject any or all proposals, negotiate modifications, request additional information, and award contracts in the best interest of the Tribe.