



# Yurok Tribe

## Job Description

<b>JOB TITLE:</b>	Restoration Engineer I		
<b>JOB GRADE:</b>	9/10	<b>REPORTS TO:</b>	Senior Restoration Engineer/Survey Manager
<b>STATUS:</b>	Non-Exempt	<b>LOCATION:</b>	Arcata/Weaverville
<b>DEPARTMENT:</b>	Fisheries	<b>DIVISION:</b>	Natural Resources
<b>ALL HIRING IS SUBJECT TO THE YUROK TRIBE'S HIRING PREFERENCE</b>			
<b>SALARY RANGE:</b>	\$27.23-\$38.81		

### **POSITION SUMMARY:**

Serve as Restoration Engineer I to assist river restoration design and construction projects for the Yurok Tribe working within the Fisheries Department – Design and Construction Program under general supervision of the Senior Civil Engineer or Survey Manager.

### **DUTIES AND RESPONSIBILITIES:**

Restoration Engineering:

1. Serve as Restoration Engineer on the multi-disciplinary Yurok Tribe Restoration Design Team
2. Conduct other Restoration Engineering duties for the Yurok Tribe as needed.
3. Participate in external technical teams of engineers and scientists (e.g. Trinity River Restoration Program - Design Team), including preparation of Yurok Tribe review comments on external science and engineering reports and designs.
4. Perform field investigations and surveys including collection of planning and design data.
5. Assist with performing Aerial Drone Surveys using Unmanned Aerial Systems (UAS) and obtain FAA Part 107 certifications.
6. Assist with the planning, develop, and evaluate project alternatives for restoration designs including channel rehabilitation systems, wetland complexes, floodplain enhancements, wood placements, and various types of habitat elements.
7. Assist in the development design deliverables and design components including:
  - a. Engineering drawings, plan sets, and specifications
  - b. Design reports and technical memos
  - c. Digital Terrain Models (DTM'S)
  - d. Existing Conditions or design alternatives grading surfaces.
  - e. Quantity and cost estimates
8. Assist in conducting hydraulic modeling and obtain appropriate FEMA certifications.
9. May be assigned other duties as necessary to meet the needs of the organization.

Implementation Planning, Execution, and Oversight:

10. Perform Restoration Engineering duties related to construction planning including:
  - a. Assist in helping oversee implementation of river restoration/construction projects to ensure compliance with contracts, specifications, and environmental regulations.
  - b. Assist in the development and evaluation of engineering cost estimates for bid documents and project proposals.
  - c. Assist in the development and evaluating pre-project proposals related to engineering aspects of the project.
  - d. Assist in developing engineering drawings for construction.
  - e. Assist with engineering quantity take-off calculations to help evaluate cost estimates.

- f. Assist with the development of construction Quality Control planning for bid documents.
- g. Assist with other aspects of bid and grant proposal development.
- h. Perform on-site construction support in grade checking, quality control surveys, general construction performance tracking and quantity calculations.
- i. Assist in developing and managing engineering and construction, and other restoration design or modeling related support contracts.
- j. Assist with the planning and oversight of cost and schedule execution of project planning, design, and construction.
- k. Assist in performing on-site engineering duties related to construction activities.
- l. Assist in conducting construction management, quality control inspections, sediment control, and environmental compliance monitoring. Write construction progress and close out reports.
- m. Perform surveying and grade checking for quality control to the project design.
- n. Assist in developing as-built drawings, quantity calculations, and other post implementation reports and administrative duties.
- o. Assist in field directing some construction activities including Large Wood placements, Engineering Log Jams, and other habitat elements.
- p. Perform fisheries or construction monitoring activities as needed to support restoration projects.
- q. Performs other related duties as assigned.

**EDUCATION/EXPERIENCE:**

- 1. Candidates should possess a Bachelor of Science degree in Civil or Environmental Engineering with focus on water resources, hydrology, hydraulics, fisheries, construction management or closely related field. PLUS one year of demonstrated experience in the field of river restoration, fisheries, natural resources, design engineering, construction management, or two years of university course work in these areas.
- 2. Candidates with equivalent combinations of education, training and experience will be considered.

**SUPERVISORY RESPONSIBILITIES:**

None.

**MINIMUM QUALIFICATIONS:**

- 1. Knowledge in engineering design software - AutoCAD Civil 3D or equivalent
- 2. Knowledge in Topographic Surface Modeling and development of Digital Terrain Models (DTM's) - ArcGIS, Civil 3D, or equivalent
- 3. Basic knowledge in construction engineering including cost estimating, project layout,
- 4. and surveying
- 5. Basic skills in project management, engineering coordination, and construction oversight
- 6. Basic skills and ability with ArcGIS, including the ability to create, edit, export and manage GIS files from multiple sources.
- 7. Intermediate skills in communication, especially writing and public speaking.
- 8. Interpersonal and oral communication skills to work cooperatively with individuals of diverse backgrounds.
- 9. Knowledge of ESA, NEPA, CEQA, and FEMA regulatory permitting and compliance.
- 10. Basic knowledge in helping compile, analyze and report data concerning physical sciences.
- 11. Recognition that in order to serve Yurok People one must know as much as possible about Yurok history, culture and values.

**CONDITIONS OF EMPLOYMENT:**

1. All applicants are subject to the Tribe’s Drug and Alcohol Policy including pre-employment screening.
2. Valid state issued driver’s license and/or the ability to obtain a California or Oregon driver’s license. Must be insurable on the Tribe’s insurance policy.
3. Must pass a background investigation and fingerprint clearance.

**LANGUAGE SKILLS:**

Must have the ability to read, write and comprehend simple instructions, short correspondence, and memos. With ability to effectively present information in one-on-one and small group situations to customers, clients, and other employees of the organization. Knowledge of Yurok language is preferred but not required.

**REASONING ABILITY:**

Apply common sense understanding to carry out instructions furnished in written, oral and/or diagram form. With ability to deal with problems involving several concrete variables in standardized situations.

**PHYSICAL DEMANDS:**

While performing the duties of this job, the employee is frequently required to walk, stand, use hands and fingers, handle, or feel. Employee will have prolonged periods sitting at a desk and working on a computer. The employee must occasionally lift and/or move up to 50 pounds.

**VISION REQUIREMENTS:**

1. Close vision (clear vision at 20 inches or less).
2. Color vision (ability to identify and distinguish colors).
3. Depth perception (three-dimensional vision, ability to judge distances and spatial relationships).
4. Ability to adjust focus (ability to adjust the eye to bring an object into sharp focus).

I, \_\_\_\_\_, (print name), acknowledge receiving a copy of this job description and understand the requirements. I also understand that, as an employee, I am expected to perform my assigned duties, to read and abide by all Yurok Tribal laws, policies and procedures, vehicle usage, procurement, and any additional guidelines set forth by the Yurok Tribe. I understand that any violations of all established policies and procedures may lead to disciplinary measures, up to and including termination. I understand that the Yurok Tribe is committed to the philosophy that employment relationships are both personal and voluntary. Accordingly, employment at the Yurok Tribe has no specific duration, and either the employee or the Yurok Tribe can terminate the employment relationship for any reason or no reason. This “at will” relationship exists between the Tribe and all employees.

\_\_\_\_\_  
Employee Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Employee #

\_\_\_\_\_  
Supervisor Signature

\_\_\_\_\_  
Date