



Yurok Tribe

Job Description

JOB TITLE:	Restoration Engineer II		
JOB GRADE:	11/12	REPORTS TO:	Senior Restoration Engineer
STATUS:	Non-exempt	LOCATION:	Arcata/Weaverville
DEPARTMENT:	Fisheries	DIVISION:	Natural Resources
ALL HIRING IS SUBJECT TO THE YUROK TRIBE'S HIRING PREFERENCE			
SALARY RANGE:	\$32.46-\$42.35/\$38.42-\$50.13		

POSITION SUMMARY:

Serve as Restoration Engineer II 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 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. Perform Aerial Drone Surveys using Unmanned Aerial Systems (UAS) and obtain FAA Part 107 certifications.
6. Plan, 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. Develop 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
 - f. Risk assessments
8. Assist in conduct 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. Oversee implementation of river restoration/construction projects to ensure compliance with contracts, specifications, and environmental regulations.
 - b. Develop/evaluate engineering cost estimates for bid documents and project proposals.
 - c. Develop or evaluate pre-project proposals related to engineering aspects of the project.
 - d. Develop 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. Plan and oversee cost and schedule execution of project planning, design, and construction.
- k. Perform on-site engineering duties related to construction activities.
- l. Conduct construction management, quality control inspections, sediment control, and environmental compliance monitoring. Write construction progress and close out reports.
- m. Assist in developing environmental permit requirements, including NEPA/CEQA compliance, Storm Water Pollution Prevention Plans (SWPPP's), and realty actions.
- n. Perform surveying and grade checking for quality control to the project design.
- o. Develop as-built drawings, quantity calculations, and other post implementation reports and administrative duties.
- p. Field directs some construction activities including Large Wood placements, Engineering Log Jams, and other habitat elements.
- q. Perform fisheries or construction monitoring activities as needed to support restoration projects.

11. Performs other related duties as assigned.

EDUCATION/EXPERIENCE:

1. Candidates should possess a Bachelor of Science degree in Civil or Environmental Engineering and an advanced science degree in engineering, biological sciences, natural resources or equivalent with focus on water recourses, hydrology, hydraulics, fisheries, construction management or closely related field. PLUS: Five years of demonstrated experience with progressively increasing responsibility in the field of river restoration, fisheries, natural resources, design engineering, construction management, or equivalent Note: Position may be able to advance in Grade Levels (from 11 to 12) with successful completion of a Professional Engineering (P.E.) License in the State of California within the Civil Engineering or Environmental Engineering Series.
2. Candidates with equivalent combinations of education, training and experience will be considered.

SUPERVISORY RESPONSIBILITIES:

This position may have supervisory responsibilities.

MINIMUM QUALIFICATIONS:

1. Basic skills in engineering design software - AutoCAD Civil 3D or equivalent
2. Basic skills in Topographic Surface Modeling and development of Digital Terrain Models (DTM's) - ArcGIS, Civil 3D, or equivalent
3. Basic skills in construction engineering including cost estimating, project layout, and surveying
4. Basic skills in project management, engineering coordination, and construction oversight
5. Advanced skills and ability with ArcGIS, including the ability to create, edit, export, and manage GIS files from multiple sources.
6. Advanced communication skills, especially writing and public speaking.
7. Interpersonal and oral communication skills to work cooperatively with individuals of diverse backgrounds.
8. Knowledge of ESA, NEPA, CEQA, and FEMA regulatory permitting and compliance.
9. Ability to compile, analyze and report data concerning physical sciences.

10. Basic experience in training and supervising subordinate staff.
11. Recognition that in order to serve Yurok People one must know as much as possible about Yurok history, culture and values.
12. Valid State issued driver's license and/or the ability to obtain a California driver's license. Must be insurable on the Tribe's insurance policy.

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

