



Cow Creek Government Office

GIS Analyst

Job Code: 1830
Department: Natural Resources
Location: Roseburg, OR
Minimum Hourly \$22.22

POSITION PURPOSE:

Reporting to the GIS Program Manager, the GIS Analyst will conduct spatial analyses and create maps that meet the ongoing needs of Tribal departments. The GIS Analyst will create imaging products (orthomosaics, DTM, 3D images) from drone collected imagery and derive spatial data from these products. They will also create and maintain web apps for the use of Tribal departments.

ESSENTIAL FUNCTIONS:

- Creation of maps for reports and contracts
- Spatial Analysis and statistical reporting for environmental assessments, project reviews, and project planning processes
- Maintain timber stand polygons and timber inventory changes in relating databases.
- Creation of interactive mapping applications of Tribal data for the exploration and mapping use of Tribal programs such as property information, fire location and growth, infrastructure, easements, ect.
- Use ArcGIS Online Storymaps to create compelling visual communication for internal and external purposes.
- Creation of custom Orthomosaics, Digital Terrain Models, Digital Elevation Models, 3D Point Clouds, 3D meshes with drone images.
- Use scripting languages and ModelBuilder to automate processes.
- Other duties as assigned.

QUALIFICATIONS:

- GIS/GISP Certification OR Bachelor's Degree in Geographic Information Systems, Geography, Planning, Natural Sciences, Computer Science, or related field
- 3 + years of experience with ESRI ArcGIS Pro in a GIS Technician (or equivalent) role with applied cartography, database management, and spatial analysis
- 2 + years of experience leveraging AGOL Web Applications for end-user operation (ie: ArcGIS Dashboards, Story Maps, and Experiences).
- Experience writing/operating Python and SQL scripts to automate processes.

- 1-2 years of experience working with drone-based imagery and processing software (Agisoft Metashape)
- Experience/knowledge in a complementary field to GIS (planning, natural resources, forestry)
- General understanding of forest mapping and inventory, familiarity with FPS, FVS, or like software
- Capacity to troubleshoot and solve technical problems for office and field staff.
- Strong professional, organizational, written, and verbal communication skills
- Flexible working style, self-initiative, self-motivation, and a willingness to work with teams to meet staffs' needs and project schedules.
- Detail-oriented and highly organized, ethical
- Possess a valid driver's license.