GIS ANALYST (VEGETATION MAPPING)

Center for Environmental Management
MILITARY LANDS
COLORADO STATE UNIVERSITY

POSITION SUMMARY

The Center for Environmental Management of Military Lands (CEMML) is hiring a Geographic Information System (GIS) Analyst. This person will join a growing team of environmental professionals based out of our headquarters at Colorado State University in Fort Collins, Colorado.

The Analyst will be responsible for working on two tasks in support of Edwards Air Force Base in southern California. The installation is approximately 130,000 acres in size and is located in the Antelope Valley within the western Mojave Desert. The first task is to map habitat types present at the base. Lakebeds, creosote bush scrub, halophytic saltbush scrub, xerophytic saltbush scrub, mesquite bosque, ephemeral and perennial aquatic resources, and Joshua tree woodland are examples are natural habitats found there. The GIS Analyst will utilize the California Wildlife Habitat Relationship System (CWHR) to delineate and map habitat types.

The second task is to produce a vegetation map of the Piute Ponds Management Area (PMA). The approximately 1,300 acre PMA is located in the southwest corner of Edwards Air Force Base. It consists of numerous clay pan ponds, freshwater emergent wetlands, perennial and ephemeral surface water, and herbaceous and shrub-dominated upland habitat. The Analyst will map vegetation within the PMA to the National Vegetation Classification Standard (NVCS) alliance level, and will also delineate the extent of major invasive plant species within the PMA.

GIS data available to accomplish these tasks include vegetation survey data, true-color and color-infrared aerial imagery, canopy models, surface elevation models, digital elevation models, previous vegetation and habitat delineations, spectrally-identified vegetation classes, geo-tagged photos, land use, and others. File format of the available data varies by source, but maps will be delivered in raster (.img preferred) and polygon format. The Analyst will follow prescribed GIS standards to prepare project deliverables.

Maps will be ground-truthed to determine accuracy, and the GIS Analyst may be able to participate in field surveys. Opportunities to assist with other project tasks, such as report writing, may also become available.

MINIMUM QUALIFICATIONS

The successful candidate must meet the minimum qualifications listed below.
- B.S./B.A. in Geography, Ecology, Natural Resources Management, or a related field
- Experience using remote sensing to identify, classify, and map vegetation and habitat types
- Experience performing image classification in ERDAS Imagine, or through similar means
- Proficiency managing and analyzing vector and raster data using ArcGIS (10.x/ArcPro), R, or related programs

- Excellent organizational skills
- Excellent written and verbal communication skills
- Ability to pay attention to detail, follow directions, and work independently to meet project schedules
- Ability to pass a background check
- Must have a valid driver's license or the ability to obtain a driver's license by the employment start date
- The successful candidate must be legally authorized to work in the U.S. by the proposed start date; CEMML will not provide visa sponsorship for this position

DESIRED QUALIFICATIONS
- M.S. in Geography, Ecology, Natural Resources Management, or a related field
- Demonstrated experience mapping and classifying vegetation following the NVCS, CWHR, or equivalent protocols
- Experience in conducting field work
- Experience in preparing scientific reports and professional deliverables
- Ability to lift 40 pounds and traverse uneven, steep terrain in a desert environment

PAY RATE AND EMPLOYMENT TERM
Pay rate is $28 to $31 per hour. This is a full-time (40 hours/week), nine-month appointment. Dependent upon future funding, this position may be hired on a competitive basis as a full-time Administrative Professional.

BENEFITS
This is a Non-Student Hourly position and is eligible for medical and retirement benefits. Please visit https://hr.colostate.edu/current-employees/benefits/ to learn more about Colorado State University's benefit packages.

WORK LOCATION
This position is associated with CEMML's main office on Colorado State University's campus in Fort Collins, Colorado. Remote applicants located outside of the greater Fort Collins area will be considered. Paid travel to Fort Collins or Edwards Air Force Base may be required. Reimbursement of travel costs will be based on the cost of travel to and from Fort Collins.

APPLICATION REQUIREMENTS
For full consideration, apply no later than 22 May 2022. To be considered, applicants must meet the minimum qualifications listed in this announcement. Incomplete applications will not be reviewed. Please remove social security numbers and birthdates from application materials. A complete application consists of the following items:

1) Cover letter (no more than 1 page, single-sided)
2) Resume (no more than 4 pages, single-sided)
3) Copy of transcripts for each degree earned or being pursued among those listed under qualifications (unofficial is acceptable)

Applicants should combine all application materials into one clearly-labeled document and send to christi.gabriel@colostate.edu. Reference GIS Analyst (Vegetation Mapping) in the subject line.

ORGANIZATION
CEMML is a research, education, and service unit within the Warner College of Natural Resources at Colorado State University. CEMML applies the latest and most appropriate science to promote sustainable management of natural and cultural resources on Department of Defense and other public lands. We provide technical support, conduct applied research, and offer career development and learning opportunities to support resource stewardship. We collaborate with our sponsors and within Colorado State University to resolve complex environmental issues, leaving a legacy of science-based decisions that sustain our resources for future generations.

To learn more about CEMML's contributions to land management, our mission, vision, and values, please visit http://www.cemml.colostate.edu/.

See a complete listing of open CEMML positions at http://www.cemml.colostate.edu/careers.

BACKGROUND CHECK
Colorado State University is committed to providing a safe and productive learning and living community. To achieve that goal, we conduct background investigations for all final candidates being considered for employment. Background checks may include, but are not limited to, criminal history, national sex offender search, and motor vehicle history.

COLORADO STATE UNIVERSITY COVID-19 VACCINATION POLICY
Beginning Monday, August 16, 2021, Colorado State University has mandated vaccinations against COVID-19. Faculty and staff are required to submit their vaccine status or declare an exemption. More information about the vaccination mandate can be found on the Colorado State University COVID-19 Information & Resources site at https://covid.colostate.edu/pandemic-preparedness-team-broad-guidance-for-all-summer-and-fall-2021-activities/.

EQUAL OPPORTUNITY STATEMENT
Colorado State University does not discriminate on the basis of race, age, color, religion, national origin or ancestry, sex, gender, disability, veteran status, genetic information, sexual orientation, or gender identity or expression. Colorado State University is an equal opportunity/equal access/affirmative action employer fully committed to achieving a diverse workforce, and it complies with all federal and Colorado state laws, regulations, and executive orders regarding non-discrimination and affirmative action. The Office of Equal Opportunity is located in 101 Student Services.

Reflecting departmental and institutional values, candidates are expected to have the ability to advance the Department's commitment to diversity and inclusion.