

GIS ANALYST (HABITAT 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 GIS Analyst will be responsible for developing habitat suitability models for four rare plant species found on Edwards Air Force Base in southern California. The four species include Desert cymopterus (*Cymopterus deserticola*), Barstow woolly sunflower (*Eriophyllum mohavense*), Alkali mariposa lily (*Calochortus striatus*), and either Lancaster milkvetch (*Astragalus preussii* var. *laxiflorus*), Mojave spineflower (*Chorizanthe spinosa*), spreading pygmyleaf (*Loeflingia squarrosa*), yellow spinescape (*Goodmania luteola*), or Rosamond eriastrum (*Eriastrum rosamondense*).

The Analyst will develop the four habitat suitability models in a scientifically rigorous manner. The specific modeling approach used for each species will be determined following review of scientific literature and GIS data. Available GIS data include occurrence records, true-color and color-infrared aerial imagery, canopy models, surface elevation models, digital elevation models, vegetation classification, land use, and others. File format of the available data varies by source, but models will be delivered in raster format (.img preferred). The Analyst will follow prescribed GIS standards to prepare project deliverables.

Models 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 developing GIS-based habitat suitability models using Maxent, DOMAIN, or similar programs and procedures
- Proficiency managing and analyzing vector and raster data using ArcGIS (10.x/ArcPro), R, and ERDAS Imagine
- Excellent written and verbal communication skills
- Excellent organizational 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
- Specialized knowledge of one or more of the plant species listed above
- 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 from traveling 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 (Habitat 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.