GIS TECHNICIAN

Posting ID: EM193224E8

Company: Great Basin Institute

Position Type: Full-Time

College Major(s): Electrical/Computer Engineering (EE/CpE), Computer Science (CS)


Work Location: Boulder City, NV

Salary: $19.00/hr

College Level(s): Undergraduate-Senior, Graduate Student, Alumni

OVERVIEW

The Great Basin Institute, in cooperation with the National Park Service - Lake Mead National Recreation Area (LAKE), is recruiting an experienced GIS Technician to work cooperatively with National Park Service staff primarily to provide geographic information system (GIS) mapping and data analysis support for cultural resource protection projects, including, but not limited to:

Roles and Responsibilities
• Assisting with data gathering, spatial analyses, and compilation of spatial and tabular data related to cultural resource management, including creating cartographic products, linkage to various databases, and compiling data for archaeological, architectural, and other cultural resource types
• Assisting with development and maintenance of GIS data resources for agency staff
• Ground-truthing and updating GIS data
• Creating and updating metadata
• Creating and modifying associated relational databases as well as data entry (Microsoft Access)
• Collecting and ground-truthing spatial data in the field
• Creating accurate maps and other representations of data for agency use and field work activity, including Area of Potential Effects (APE) maps for NEPA/NHPA review
• GIS modeling of resource locations
• Provide GIS technical assistance, training, and planning with park staff on GIS software and geodatabases
• Create and/or update protocols and documentation for GIS data collection and processing
• Other cultural resource program tasks as assigned

Education and Qualifications

Marian Mason | Internship & Career Services Coordinator | coecareer@unlv.edu | https://unlv.edu/engineering/jobs
UNLV, Howard R. Hughes College of Engineering
• Bachelor’s degree in natural sciences, geography, archeology, or closely related field with coursework and/or experience that demonstrate understanding of the principles of geographic information systems; Applicants with an advanced degree encouraged to apply
• 1-2 years minimum experience using ArcGIS to create maps, analyze data, and organize layers, required; knowledge and prior experience using Collector for ArcGIS, ArcGIS Online, building web map for use in Collector for ArcGIS, and extensions preferred
• Experience creating and modifying relational databases required; advanced knowledge and experience with Microsoft Access preferred
• Ability to collect and maintain field data in an organized manner that is easily understood and accessible to other staff
• Ability to integrate information across various documents and digitize spatial data from hard copies
• Knowledge of archeological field and lab practices desired
• Ability to work collaboratively as a member of an interdisciplinary team
• Comfortable communicating, both written and orally, with diverse audiences
• Possess excellent organizational skills and be detailed oriented
Successful applicant(s) must complete a Department of Interior (DOI) Background Investigation (BI) or submit paperwork to NPS human resources indicating an active and fully adjudicated BI has already been completed prior to beginning position.

Preferred Skills
Although the majority of the work will be in an indoor office setting, field site visits may also occur. Thus, these qualifications are also desirable:
• Ability to navigate and collect data using mobile devices and/or GPS units using Collector for ArcGIS
• Experience utilizing a compass and reading topographic map
• Possess a clean, valid, state-issued driver’s license with ability to safely operate and maintain a 4WD vehicle on and off paved roads
• Ability to live and work in rural and remote field and office environment
• Ability to hike to remote field locations of moderate difficulty within a desert climate on uneven and rocky terrain

How to Apply