



# MANRRS



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**Location:** New Mexico State Office

**Dates:** June 5<sup>th</sup>- August 18<sup>th</sup>

**Job Title:** Archaeologist

**Related Degree:** Intern should possess a BA or BS in Anthropology, and ideally be enrolled in a MA or PhD program

**Position Description:** The New Mexico State Protocol Agreement signed in 2014 and forms the backbone of our efficient and effective Section 106 of the National Historic Preservation Act (NHPA) compliance process. After several years of implementation, both BLM and the State Historic Preservation Office (SHPO) have identified aspects of this important agreement document that are in need of revision as well as additional appendices to increase our efficiency. However, any changes must conform to the requirements of the National Programmatic Agreement (nPA) and the regulations at 36 CFR 800. While issues have been identified, compiling and editing this lengthy (ca. 90 pages) critical document requires concentrated, focused effort ideal for an internship project. The intern would develop a deep understanding of the intricacies of the implementing regulations of Section 106 of the NHPA under the National Programmatic Agreement, as well as developing skills in project management, tribal consultation, stakeholder involvement and public outreach.

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**Location:** Carlsbad/NM/BLM

**Dates:** June 5<sup>th</sup>- August 18<sup>th</sup>

**Job Title:** Archaeology Intern

**Related Degree:** Anthropology

**Position Description:** The Bureau of Land Management Carlsbad Field Office cultural staff would welcome an archaeology intern student for the summer of 2017. The successful candidate should have an interest in prehistoric southwestern and/or plains archaeology. This individual needs to have a positive attitude in understanding the BLM-CFO challenges, attend workshops or seminars sponsored by the other BLM specialists to get an insight to their duties and passions, and take on line training during his or her session at the BLM. This individual should have good work ethics, have good time management skills, be able to problem solve relating to the BLM mission, and have good communication skills with industry, the New Mexico State Historic Preservation Office, contract archaeologists, and other BLM specialists.

The archaeology intern student will receive an overview what the CFO archaeologist duties are. This includes but not limited to reviewing and discussing BLM's archaeology guide lines or regulations, the State Protocol between the New Mexico Bureau of Land Management and the New Mexico State Historic Preservation Officer regarding the manner in which BLM will meet its responsibilities under the National Historic Preservation Act in New Mexico, the Carlsbad standards for survey and site evaluation, the Permian Basin Programmatic Agreement, and several historic context overviews for southeastern New Mexico. The individual will be introduced to entering both traditional archaeology survey reports and Permian Basin Programmatic reports into the BLM archaeology data base. This individual will also be presented to BLM's geographic information system. The intern student will have access to enter and/or edit GIS archaeology survey space shape files and archaeology site shape files into our system. The individual will support the Carlsbad archaeology staff in conducting archaeology range surveys (water pipelines, troughs, drinkers, fences, etc.) and may assist in the report writing using the New Mexico Information Abstract Form or NIAF. Also, the student will be familiarized with entering data into the New Mexico Cultural Report Information System such as adding site eligibility determinations.

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**Location:** New Mexico State Office/BLM

**Dates:** June 5<sup>th</sup>- August 18<sup>th</sup>

**Job Title:** Archaeologist

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**Position Description:** The New Mexico State Protocol Agreement signed in 2014 and forms the backbone of our efficient and effective Section 106 of the National Historic Preservation Act (NHPA) compliance process. After several years of implementation, both BLM and the State Historic Preservation Office (SHPO) have identified aspects of this important agreement document that are in need of revision as well as additional appendices to increase our efficiency. However, any changes must conform to the requirements of the National Programmatic Agreement (nPA) and the regulations at 36 CFR 800. While issues have been identified, compiling and editing this lengthy (ca. 90 pages) critical document requires concentrated, focused effort ideal for an internship project. The intern would develop a deep understanding of the intricacies of the implementing regulations of Section 106 of the NHPA under the National Programmatic Agreement, as well as developing skills in project management, tribal consultation, stakeholder involvement and public outreach.

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**Location:** Las Cruces District Office, New Mexico

**Dates:** June 5<sup>th</sup>- August 18<sup>th</sup>

**Job Title:** Archaeologist

**Related Degree:** Anthropology / Archaeology

**Position Description:** The Las Cruces District Office is home to the Three Rivers Petroglyph Site, a developed recreation site. This prehistoric site contains more than 21,000 petroglyphs and an associated Jornada-Mogollon pueblo that was occupied between 900-1400 AD. The site is already listed on the New Mexico State Register of Historic Places. This site represents an area of tremendous cultural value and importance to local tribes. A DHA intern would research and prepare the paperwork to nominate Three Rivers to the National Register of Historic Places. The nomination of both the petroglyphs and the pueblo would provide increased protection for the site. Further, the nomination would provide recognition of the significance this site has for indigenous local tribes.

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**Location:** Las Cruces District Office /NM/BLM **Dates:** June 5<sup>th</sup>- August 18<sup>th</sup>

**Job Title:** Fisheries Technician and Planner

**Related Degree:** BS/BA in Wildlife Sciences with a fisheries emphasis

**Position Description:** Though the position falls in the Biological Sciences Technician series 0404, the proposed project is best described as Fisheries Technician internship with an ecological and planning component. Conoco Lake is a small pond (~2 ha) located in Lea County approximately 40 miles east of Artesia, New Mexico, USA. Conoco Lake was established with cooperation between ConocoPhillips (CP), the New Mexico Department of Game and Fish (NMDGF), Quail Unlimited and the Bureau of Land Management (BLM). The site was an abandoned caliche pit on BLM land, and the cooperators desired to create a recreational fishery through water diversion to the pit. The Bureau of Land Management is responsible for managing aquatic and riparian areas including those of Conoco Lake. Due to general recreational fishing, birding and waterfowl hunting, as well as, illegal vehicle use, the shoreline and upland areas have

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been degraded. This has allowed the soils to erode into the pond and increased sedimentation leading to decreased quality and quantity of habitat required for the desired fish species. Previous fish surveys conducted on Conoco Lake show high densities of green sunfish, stunted largemouth bass, without minnow species (the primary food resource). Consequently, the fishery is depauperate and lacks vertical and horizontal structure. Water quality is important for a healthy fishery, as well as, for public health. Therefore, long-term water quality measurements at Conoco Lake (i.e. temperature, water level, conductivity, and other parameters), are required in order to characterize the pond. It is critical to understand water quality to correctly manage an aquatic ecosystem. Conoco Lake has the potential to provide many recreational opportunities, including, fishing, waterfowl hunting, and birding with proper management guidelines. Therefore, the primary purpose of the Conoco Lake aquatic management plan, and thus this internship, is to develop and institute methods and management strategies for the establishment of a sustainable, recreational fishery and to develop and enhance riparian aquatic habitats, in order to increase the diversity of aquatic biota.

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**Location:** BLM/ New Mexico/Carlsbad Field Office   **Dates:** June 5<sup>th</sup>- August 18<sup>th</sup>

**Job Title:** Geographic Information Specialist (GIS)

**Related Degree:** Bachelors of Science degree in Geography

**Position Description:** Because of this heavy work load, we need an intern that will help with data entry into our SDE system. We are looking for an individual who has a good understanding of geographic sciences and computer systems to help support GIS technology. Geographical sciences include aerial photography interpretation satellite image processing, remote sensing techniques, three dimensional geographic analyses, computer based cartography, and a wide range of data collection procedures. The intern must have a thorough and effective mix of technical skills in the geographic and computer science disciplines as well as a working appreciation of the agency mission and operational procedures sufficient to support various local office programs. The intern would work alongside a seasoned employee to teach them the roles and functions of a GIS Specialist. This would provide the intern the access to one of the busiest offices in the country and a wealth of knowledge in many different geographic science practices. The intern would be taught the beginning processes of the local GIS systems. They would work with local GIS Specialists to learn the functions of majority of their job duties and responsibilities. They would also learn about working within an interdisciplinary team environment, consisting of Natural Resource Specialists, Biologists, Archaeologists, Range Management Specialists, Hydrologists, Cave and Karst Specialists, Realty Specialists, Geologist, Petroleum Engineers, and NEPA Planners. This interdisciplinary team interaction would help to teach the intern about important team building skills and interactions within an office setting. The intern would also have the opportunity through the interdisciplinary team to learn about the many resources and multi-use mission that the BLM is faced with. The intern would provide input in the development of technical resolutions to Geographic Sciences problems for the purpose of determining statewide and office Bureau policy.

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**Location:** BLM New Mexico State Office

**Dates:** June 5<sup>th</sup>-August 18th

**Job Title:** Geologist or Cartographer

**Related Degree:** Geology, GIS

**Position Description:** This project will involve developing a GIS tool and documentation regarding the tracking and monitoring of Federal Oil and Gas lease suspensions in NM, OK, KS, and TX. The individual will work with fluid minerals and GIS technical staff to develop a GIS tool for linking lease suspension data in LR2000 to active lease and APD data in IT4RM. This web-based tool will allow the spatial viewing and querying of lease suspensions, showing their location, status, conditions of the suspension, timeframes, and relevant documents in IT4RM. Lease suspensions are a major component of the BLM NM oil and gas program and are a significant and ever growing workload for fluid minerals staff. Currently, no official statewide method exists for tracking and monitoring lease suspensions in the four-state region. BLM NM will undertake this project to provide a web accessible GIS-based system that will automate the monitoring and tracking of lease suspensions and reduce staff processing time and workload.

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**Location:** New Mexico State Office/ New Mexico/ NM 930 Division of Land and Resources

**Dates:** June 5<sup>th</sup>-August 18th

**Job Title:** Geographic Information System Specialist, Rangeland Management Specialist, Natural Resources Specialist

**Related Degree:** Geography, Range Science, Natural Resources Management

**Position Description:** Original Range Survey Maps from the 1930s delineating dominant plant communities would be scanned, georeferenced, and protocol would be developed for their digitization. These maps describe the area administered by the Socorro Field Office and encompass large portions of Socorro and Catron counties of New Mexico. This project would be nearly identical to the effort undertaken by the Las Cruces BLM, New Mexico State University, and the USDA Agricultural Research Station, Jornada Experimental Range to capture original Range Survey data from the Las Cruces area. This effort is described in detail in the following publication: <https://www.ars.usda.gov/ARSTUserFiles/30501000/VegetationMaps.pdf>

These maps provide the earliest comprehensive plant community descriptions available to BLM of the area. Their availability in a digital and georeferenced format will provide BLM staff, as well as the public at large, an invaluable resource for vegetation management activities and decisions. Such data could be used to indicate long term vegetation trends, which would inform future vegetation management decisions. To date there has been no attempt to capture the maps from the Socorro Field Office in a digital format and they are at risk of being lost as a result of age and physical damage.

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**Location:** BLM/New Mexico/Carlsbad Field Office

**Dates:** June 5<sup>th</sup>-August 18th

**Job Title:**

**Related Degree:** Biology, Wildlife Science, Environmental Science, Ecology

**Position Description:** Last year's recipient of the Intern NRS Potash reported that the position was extremely challenging and demanding and often placed him in uncomfortable territory communicating to large multi-operator onsites but the opportunity to grow both personally and professionally outweighed those distressing instances. Planning for Oil and Gas Development in coordination with Potash Development within the boundary of the Secretary's Order. This project is to help with coordination and orderly development of the oil and gas resources and management of potash resources. Almost 200 drill islands have been proposed by either BLM or industry in the last four years, but less than 10 percent have been officially approved. Drill islands and their respective development areas have multi-faceted impasses with each individual drill island. No drill island is exactly the same and requires creative problem-solving skills both in discussion and on the onsites. This project is to help coordinate meetings between oil and gas companies and the potash industry, and set up on-site inspections to look at potential drillable oil and gas well locations within the Secretary's Potash Area boundary. The project is designed to help place large scale drill islands in areas that help to minimize the impact to the potash resources. The Carlsbad Field Office has been working toward building positive working relationships with both industries. It is imperative that we move forward with building these relationships, so that we can approve projects for both industries, while making certain that natural resources are being protected to the greatest extent possible. The intern would work with industries, potash and oil and gas industry, ranchers and potash specialists to help set up meetings and on-site inspections. Most drill islands have been proposed by industry relative to their fluid mineral leases with approval concurrence by the nearest affected potash lessee. Now the proposals need to be surface vetted by Natural Resource Specialists. The intern will be responsible for setting up meetings and onsite inspections to determine whether the proposed drill island can be approved as proposed or whether modifications will be needed relative to natural resources and/or existing infrastructure such as pipelines, powerlines, wildlife improvement, etc. in the immediate area of the drill island. The intern will also need to meet with ranchers affected by the development of the drill island to make sure their concerns are mitigated and acknowledge their suggestions. Working with these industries would also require the intern to work within our office with an interdisciplinary team of resource specialists. The resource specialist will help to guide the intern in the correct direction and ensure that all parties within our office are on the same page. The intern also would work with our GIS Specialists to help develop maps that could be reviewed by both industries. They would also help GIS Specialists to store the information into our local database system. The intern would be responsible for updating the drill islands for the Carlsbad Field Office by uploading the shapes into Drill Island layers and for hard copy maps. The intern will be responsible for attending bi-monthly Potash IM meeting to present findings from field work and answer any questions from the IM team that may affect the drilling locations. The intern would be responsible for keeping potash specialists updated on the status of all drill islands and be able to make presentations to upper management when problematic or unforeseen issues arise that may deter the process. In order for us to move forward proactively with industry, we need an additional Natural Resource Specialists with a focus on Biological, Archaeological, Ecological and Geomorphological practices to be placed within our office to help us move forward with the efficiency of our permitting processes.

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**Location:** BLM/NM/State Office/Mineral

**Dates:** June 5<sup>th</sup>-August 18th

**Job Title:** Natural Resource Specialist

**Related Degree:** Natural Resources, Environmental Science, Biological Sciences, Soil Science, Range or Vegetation Management, Geology

**Position Description:** The project is to ensure that abandoned oil and gas wells are timely inspected, reclamation is being completed, and that abandoned wells with adequate reclamation be moved into a final abandonment status. The BLM NM OK TX KS organization currently has 6,680 Federal and Indian abandoned wells: 3,112 wells in abandoned well status for ten years or longer; 1,481 wells in abandoned well status for five to ten years; and 2,087 wells in abandoned well status for zero to five years. The BLM Washington Office Instruction Memorandum No. 2016-151, Fiscal Year 2017 Oil and Gas Inspection and Enforcement Strategy Matrices Instructions and Strategy Goal, requires offices to conduct an inspection to verify reclamation compliance and reclamation completion on any well that has been in abandoned well status for more than 10 years and has not had an environmental inspection within the last five years. In addition, offices are encouraged to conduct an inspection to verify reclamation compliance and reclamation completion on any well that has been in abandoned well status for more than five years and has not had an environmental inspection within the last three years. It is a priority for the BLM NM OK TX KS organization to ensure proper reclamation of all abandoned wells, and to reduce the number of wells we have in abandoned well status.

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**Location:** BLM/New Mexico/Roswell Field Office **Dates:** June 5<sup>th</sup>-August 18th

**Job Title:** Natural Resource Specialist

**Related Degree:** Recommended courses Biological Sciences, Real Estate, Natural Resource Management, Chemistry, Agriculture, and Cartography (GIS) Degree

**Description:** This project is to find a good intern candidate to help with the daily work load within the Roswell Field Office as a Natural Resource Specialist (NRS). The Roswell Field Office is a high paced BLM office for approving oil and gas permits and realty applications. We are looking for an individual who has a good understanding of biological and natural resources that would excel working in a team environment. The intern would work alongside a seasoned employee to teach them the roles and functions of a NRS. This would provide the intern access to a high paced work environment and prepare them for their future career. The intern would be taught the beginning processes of the National Environmental Policy Act (NEPA) and how to properly write Environmental Assessments (EA's), Determination of NEPA Adequacy (DNA's) and or Categorical exclusions (CX's). They would also learn about working within an interdisciplinary team environment, consisting of Realty Specialist, Biologists, Archaeologists, Range Management Specialists, Hydrologists, Cave and Karst Specialists, and NEPA Planners. This interdisciplinary team would help to teach the intern about natural resources and the need for protecting resources for future generations.

The intern would help coordinate and lead on ground inspections of proposed surface disturbing activities associated with oil and gas development and/or other land uses. This includes well pad locations, roads, pipelines, oil spill locations, and other activities related to oil and gas production. The intern would help conduct field inspections of oil and gas operations, surface use authorization, and/or oil spill cleanup and compliance with laws and regulations, lease terms, onshore oil and gas orders.

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**Location:** BLM/New Mexico/Carlsbad Field Office

**Dates:** June 5<sup>th</sup>-August 18th

**Job Title:** Petroleum Engineer/Geologist

**Related Degree:** Engineering or Geology

**Position Description:** The Carlsbad Field Office is currently one of the busiest BLM offices in the Nation for processing oil and gas permits. The Individual would work alongside experienced petroleum engineers within the BLM as well as reviewing projects submitted by the oil and gas industry. The Individual will gain knowledge of BLM databases as well as other software such as Powertools, Petra and ArcMap. This project will also assist in reviewing and approving new unit proposals, monitoring annual unit activity through Plans of Development, generating 1<sup>st</sup> and last production memos, analyzing commercial well determination requests, analyzing geological data, and terminating Unit Agreements.

A portion of this project would include assisting the Carlsbad Field Office with reviewing 20 percent of Operators Bonds per year. As operators acquire new properties, drill more wells or become noncompliant, the bond(s) must be evaluated and potentially modified. The intern will receive training to assist in job goals as well as familiarize them with the overall BLM mission.

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**Location:** BLM/NM/Carlsbad Field Office

**Dates:** June 5<sup>th</sup>-August 18th

**Job Title:** Realty Specialist

**Related Degree:** Recommended courses Business, Real Estate, English, Natural Resources

**Position Description:** The Carlsbad Field Office is currently one of the busiest BLM offices in the Nation for approving oil and gas permits and realty applications. We are looking for an individual who has a good understanding of biological and natural resources that would be good in working in a team environment. The intern would work alongside a seasoned employee to teach them the roles and functions of a realty specialist. This would provide the intern the access to one of the busiest offices in the country and a wealth of knowledge.

The intern would be taught the beginning processes of the National Environmental Policy Act (NEPA) and how to properly write Environmental Assessments (EA's) and or Categorical exclusions (CX's). They would also learn about working within an interdisciplinary team environment, consisting of Natural Resource Specialist, Biologists, Archaeologists, Range Management Specialists, Hydrologists, Cave and Karst Specialists, and NEPA Planners. This interdisciplinary team would help to teach the intern about natural resources and the need for protecting resources for future generations.

The intern would participate in field examinations to determine the potential environmental impacts and the necessary mitigating measures for a variety of proposed lands and realty actions including major rights-of-way, leases, recreation, and public purpose action, sales, withdrawals, and land exchanges. The intern would coordinate with members of the interdisciplinary team for clearances and other professional stipulations, and make logical and appropriate recommendations to the decision maker.

The intern would also conduct compliance checks on the various actions during and after construction to determine if compliance with all environmental requirements of the approved plans has been completed. The holders or leaseholders would then be contacted when problems or discrepancies were encountered.

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**Location:** BLM/ New Mexico/Carlsbad Field Office

**Dates:** June 5<sup>th</sup>-August 18th

**Job Title:** Range Management Specialist

**Related Degree:** Rangeland Management Specialist, Natural Resources, Agricultural Degree Biology, Environmental Science

**Position Description:** This project is to find a good intern candidate to help with the daily work load within the Carlsbad Field Office as a Range Management Specialist (RMS). The Carlsbad Field Office is currently one of the busiest BLM offices in the Nation for approving oil and gas permits and realty applications, as well as a strong grazing management program. Nearly all the ranches are family ranches and we have a good working relationship with the ranchers. We are looking for an individual who has a good understanding of biological, range management and natural resources that would be good in working in a team environment. The intern would work alongside a seasoned employee to teach them the roles and functions of a RMS. This would provide the intern the access to one of the busiest offices in the country and a wealth of knowledge. The intern would be taught the beginning processes of the National Environmental Policy Act (NEPA) and how to properly write Environmental Assessments (EA's), Decisions of NEPA Adequacy (DNA's) and or Categorical exclusions (CX's). They would also learn about working within an interdisciplinary team environment, consisting of other Range Management Specialists, Natural Resource Specialists, Biologists, Archaeologists, Hydrologists, Cave and Karst Specialists, and NEPA Planners. This interdisciplinary team would help to teach the intern about natural resources and the need for protecting resources for future generations. The intern would participate in various field work to assist in the grazing management and watershed improvement on 260 grazing allotments within the Carlsbad Field Office area. The intern would also coordinate with members of the interdisciplinary team for clearances and other professional stipulations, and make logical and appropriate recommendations to the decision maker.

**Project Goals:** The goal of this project is to help the local office with the workload and high demand of projects that are going through the office. The other part of the goal is to find willing candidates or develop interns who are interested in protecting resources for future generations.

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**Location:** BLM/ NM/Roswell Field Office      **Dates:** June 5<sup>th</sup>-August 18th

**Job Title:** Range Management Specialist (RMS).

**Related Degree:** Rangeland Management Specialist and Cartography (GIS)

**Position Description:** The RFO is a high paced BLM office for approving oil and gas permits, realty applications, habitat restoration projects, and grazing permits and renewals. The RFO manages 375 grazing allotments that require compliance inspections and rangeland health assessments. We are looking for an individual who has a strong understanding of biology, rangeland management, and natural resources that would excel working in a team environment. The position requires strong interpersonal skills to assist in maintaining the good working relationships the RFO has with the local ranching community. The intern would work alongside a seasoned employee that would teach them the roles and functions of a RMS. This would provide the intern access to a high paced work environment and prepare them for their future career. The intern would be taught the beginning processes of the National Environmental Policy Act (NEPA) and how to properly write Environmental Assessments (EA's) and Decisions of NEPA Adequacy (DNA's). They would also learn about working within an interdisciplinary team environment, consisting of other Range Management Specialists, Natural Resource Specialists, Biologists, Archaeologists, Hydrologists, Cave and Karst Specialists, and NEPA

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Planners. This interdisciplinary team would help to teach the intern about natural resources and the need for protecting resources for future generations. The intern would participate in fieldwork that assists in the rangeland management and watershed improvement on 375 grazing allotments within the Roswell Field Office area. The intern would also coordinate with members of the interdisciplinary team for surveys and other professional stipulations, and make logical and appropriate recommendations to the decision makers.

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