

STATE OF NEVADA

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COLORADO RIVER COMMISSION  
OF NEVADA

**Hydrology and Modeling Analyst**

(Environmental Program Manager)

***Unclassified Position Announcement***

Las Vegas

The Colorado River Commission of Nevada (Commission) is seeking qualified applicants for the position of Hydrology and Modeling Analyst. This is an unclassified, full-time position within the Nevada State Government.

**RECRUITMENT:** Open to all qualified candidates, the vacancy is in Las Vegas, Nevada.

**POSITION DESCRIPTION:** The Hydrology and Modeling Analyst is responsible for managing water resource projects which includes Colorado River water accounting, modeling, and analysis of natural resource data. The Hydrology and Modeling Analyst represents the State in various workgroups, stakeholder groups, and meetings pertaining to the Colorado River.

**BACKGROUND OF AGENCY:** The Commission receives and holds in trust water and hydropower allocations from the Colorado River for the benefit of the State of Nevada. The Colorado River is one of the most highly regulated rivers in the world. The river flows through portions of seven states and the country of Mexico. The Colorado River is managed and operated under numerous compacts, federal laws, court decisions and decrees, contracts, and regulatory guidelines, commonly referred to as the "Law of the River."

**BACKGROUND OF NATURAL RESOURCES GROUP:** The Commission's Natural Resources Group (NRG) responsibilities include preparation of reports of Nevada's diversions, returns, and consumptive use of Colorado River water. The NRG provides analysis of Colorado River data including runoff, temperature, precipitation, snowpack, and climate change impacts. The NRG performs analysis of the Bureau of Reclamation's models, including the 24-month study, Colorado River Mid-term Modeling System (CRMMS), and the Colorado River Simulation System (CRSS).

The NRG ensures Nevada's compliance with environmental laws, including without limitation, the Endangered Species Act, National Environmental Protection Act, Clean Water Act, Environmental Protection Act, the Glen Canyon Protection Act, and the Colorado River Basin Salinity Control Act. Further, the Commission, through the NRG, participates in several environmental programs on the river, including without limitation, the Salinity Control Forum, Lower Colorado River Multi-Species Conservation Program, Minute 323 Binational Workgroups, and the Glen Canyon Dam Adaptive Management Program.

The Commission in collaboration with the Southern Nevada Water Authority, ensures Nevada's Colorado River allocation is used efficiently and consistently with the water service contracts, federal and state rules and laws and operational guidelines, including the Boulder Canyon Project Act, Interim Surplus Guidelines, Drought Contingency Plan and Minutes under the Mexican Water Treaty.

**POSITION DESCRIPTION:** The Commission is seeking a qualified individual who is committed to public service and able to successfully complete individual tasks as well as work well with others from diverse professional backgrounds.

The Hydrology and Modeling Analyst will be responsible for performing analysis using the Bureau of Reclamation's RiverWare models, including the 24-Month Study, CRMMS, and CRSS. The Hydrology and Modeling Analyst will forecast monthly and annual hydropower generation from dams within the Colorado River Basin using various hydrologic scenarios and reservoir operations. Past months forecasts will be evaluated to develop improvements in forecasting methods.

The Hydrology and Modeling Analyst will be responsible for Colorado River water accounting and analysis of factors affecting the Colorado River including hydrology, drought, climate change, and regulatory requirements stemming from environmental assessments and impact statements.

The Hydrology and Modeling Analyst on occasion may present information at Commission meetings or to hydropower customers at their annual meeting. Duties further include monitoring water permits and water permit applications with the State Engineer that affect the Commission's Las Vegas Wash Permit.

The Hydrology and Modeling Analyst is expected to have or quickly acquire adequate working knowledge of the issues affecting the Colorado River, both in the upper and lower basin, and be able to contribute relevant knowledge and/or experience for serious consideration.

**EDUCATION, EXPERIENCE, KNOWLEDGE, AND ABILITIES:** **Education and Experience:** Candidate should have at least a bachelor's degree from an accredited college or university with a major in either earth sciences, geology, engineering, or environmental studies, preferably with experience in energy, water, or environmental modeling; or a master's degree or higher from an accredited college or university in related fields. The preferred candidate will have experience with data management, modeling, and statistical analysis. The candidate should also be skilled in oral and written communication and be able to create, develop and maintain effective working relationships with a wide variety of interested and affected parties.

**BENEFITS:**

- **Health Insurance:** medical, dental, life and disability insurance programs for employees and dependents/family are offered.
- **Vacation:** Accrual of approximately three weeks of annual leave each year.
- **Sick Leave:** Accrual of approximately three weeks of sick leave each year.
- **Paid Holidays:** 12 paid holidays per year.
- **Retirement:** Participation in the Nevada Public Employee Retirement System (PERS).
- **Deferred Compensation:** The State has a voluntary deferred compensation program.

**APPROXIMATE GROSS SALARY:** Starting salary depends on education, experience, knowledge, and abilities of a candidate to fulfill the needs of the position. Candidates with less experience may be considered with a lower starting salary with the opportunity for increases over time as the candidate grows in the position. The salary range for this position is:

Employee/Employer Paid PERS<sup>1</sup> \$75,000 to \$110,000

**DEADLINE:** Applications will be accepted until the position is filled.

Submit a cover letter and résumé to:  
Gina Lee Goodman  
Executive Assistant Manager  
Colorado River Commission of Nevada  
100 North City Parkway, Suite 1100  
Las Vegas, Nevada, 89106

E-mails submissions will be accepted and should be sent to: [ggoodman@crc.nv.gov](mailto:ggoodman@crc.nv.gov)

Note to Applicant: In your letter of interest please indicate how you heard about the position. If you heard about this position through a website, please specify which website.

Posted: October 2024

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<sup>1</sup> PERS – Public Employees' Retirement System of Nevada