



Great Basin Unified Air Pollution Control District

Senior Scientist

FLSA Classification
Nonexempt

Salary Range
Range 67

Bargaining Unit
Non-Management

JOB DESCRIPTION

Summary

Under general direction, conducts and oversees professional research studies of dust control measures; assists with identification of dust source areas requiring mitigation; participates as a team member in the evaluation of dust control areas for compliance with performance criteria, development of new dust control measures and review of technical research projects; and performs other related duties as required.

Essential Duties

Reasonable accommodations may be made to enable individuals with disabilities to perform these essential duties.

- Regular attendance during scheduled hours as per the District's Employee Rules, Policies, and Procedures Manual Section 4.12.
- Follow written and verbal directions in English.
- Serve the District in a leadership capacity.
- Implement District research studies and oversee contracted studies involving dust control compliance, issues of soils, geology, and hydrology.
- Develop test and study protocols and plans.
- Oversee the installation of equipment and organization of materials for projects.
- Coordinate and participate in the collection of data including field observation, soil, crust, and water samples.
- Organize and perform analysis of field samples.
- Conduct Owens Lake BACM site visits, field inspections, and complete performance criteria evaluations.
- Maintain database of field tests and evaluates data.
- Review scientific information of related studies.
- Prepare reports describing findings.
- Participate as a team member in the general design, schedule, and review of technical research projects and studies.
- Review research proposals submitted by consultants and research institutions.
- Confer with consultants, outside researchers, and other agencies on District and related projects.
- Prepare proposals for District research projects.
- Prepare and track budgets for approved projects and on-going work.
- Conduct detailed analysis of any Owens Lake and Mono Lake bed areas requiring dust control.
- Participate in management, staff, and other stakeholder meetings.



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- Design, coordinate, and implement research studies involving the Keeler Dunes and direct contractors in such work as deemed necessary to control dust coming off the dunes.
- Represent the District at professional conferences and meetings regarding dust controls, soils, geology, and hydrology.
- Make technical presentations of findings.
- Routinely provide work updates to the APCO and regularly seek direction on projects as necessary.

Competencies (Knowledge, Skills, and Abilities)

- Ability to establish positive working relationships with representatives of the community, organizations, state/local agencies, District staff, and the public.
- Knowledge of methods and techniques for record keeping, report preparation, and writing.
- Ability to communicate technical information in layperson terms.
- Knowledge of English usage, spelling, vocabulary, grammar, and punctuation.
- Ability to read, analyze, interpret, record, and present data accurately.
- Ability to organize, prioritize, and follow up on work assignments.
- Ability to work independently and as part of a team.
- Knowledge of standard office procedures, practices, and the operation of modern office equipment, including a computer and applicable software.
- Knowledge of basic budgeting skills, ensuring that division has resources required to meet goals.
- Ability to operate off-highway vehicles in a safe manner.

Supervision given/supervision received

- Supervised by the Air Pollution Control Officer.
- Supervises work of science contractors.

Work environment

This job is a combination of desk and field work. Field work which is performed on a regular basis requires standing and walking up to 50% of the time. Field work requires occasional lifting, pulling, and pushing of materials up to 40 lbs. Occasional bending, twisting, squatting, and working on uneven surfaces. Job requires frequent travel by car and occasional travel by off-road vehicle. Works outside on a regular basis to conduct or coordinate field work with exposure to extreme weather conditions (hot, cold, wind) and dust. Computer terminal or device is used daily.



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Physical demands

Physical Activities	Frequency (N) Never (I) Infrequently (O) Occasionally (F) Frequently or (C) Constantly
Ascending or descending ladders, stairs, scaffolding, ramps, poles, and the like.	O
Moving self in different positions to accomplish tasks in various environments.	O
Remaining in a stationary position, often standing or sitting for prolonged periods.	F
Moving about to accomplish tasks or moving from one worksite to another.	F
Communicating with others to exchange information.	C
Repeating motions that may include the wrists, hands and/or fingers.	F
Operating machinery and/or power tools.	O
Operating motor vehicles.	F
Assessing the accuracy, neatness and thoroughness of the work assigned.	C
Environmental Conditions	Check all that apply
Low temperatures.	√
High temperatures.	√
Outdoor elements such as precipitation and wind.	√
Noisy environments.	
No adverse environmental conditions expected.	
Physical Demands	Frequency (N) Never (I) Infrequently (O) Occasionally (F) Frequently or (C) Constantly
Sedentary work that primarily involves sitting/standing.	F
Light work that includes moving objects up to 20 pounds.	F
Medium work that includes moving objects up to 50 pounds.	O
Heavy work that includes moving objects up to 100 pounds or more.	I

Travel required

Yes. Frequent travel by car from site to site, occasional travel for meetings and training.

Preferred education and experience

Graduation from college with a Bachelor's Degree in environmental science, ecology, geology, hydrology, or other related physical or natural science or related field and three



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years of research experience or a Master's degree in one of the environmental or geosciences or related field involving field research or any combination of training and/or experience that could likely provide the desired knowledge and abilities.

Additional eligibility requirements

- Must have (or obtain within 90 days of start) California Driver's License Class C or higher.
- Must have (or obtain within 1 year of start) medical certification for respirator use.

Affirmative Action/EEO statement

It is the policy of Great Basin Unified Air Pollution Control District to provide equal employment opportunities without regard to race, color, religion, sex, national origin, age, disability, marital status, veteran status, sexual orientation, genetic information, or any other protected characteristic under applicable law.

Other duties

Please note this job description is not designed to cover or contain a comprehensive listing of activities, duties or responsibilities that are required of the employee for this job is not restrictive to required duties. Other duties, responsibilities, and activities may change or be required at any time with or without notice.