LAS VEGAS VALLEY WATER DISTRICT
invites applications for the position of:

Post-Doctoral Researcher - Limited Term

**SALARY:** $74,741.00 /Year

**OPENING DATE:** 02/09/16

**CLOSING DATE:** 03/10/16 08:00 AM

**ABOUT THIS JOB:**

**FILING DEADLINE:** Position may close prior to, or be extended beyond, the posted deadline depending upon THE APPLICANT pool; therefore, APPLICANTS are encouraged to apply as soon as possible.

**HOURS OF WORK:** 4/10's, 7am-5:30pm, M-Th

The term of this appointment will be a maximum of 36 months. All persons hired into Limited Term (LT) positions will be required to sign a term of employment letter specifying conditions of employment.

Human Resources will screen applications and supplemental questionnaires. Candidates possessing the strongest skills and experience for this position will be forwarded to the hiring department for further evaluation and to determine who will be invited to the formal interview process. The candidate hired will be required to pass a drug screen and comprehensive background check.

For any questions regarding this announcement, please contact Stephanie Calmy at stephanie.calmy@lvvwd.com.

**GENERAL PURPOSE:**

Independently conducts highly specialized research studies on raw and potable water to detect and analyze unregulated compounds and contaminants and develop methods for their detection and removal, using novel techniques and emerging technologies; assists in the design, execution and reporting on research studies and drafting of proposals for external research funding; and performs related duties as assigned.

The ideal candidate will have a doctorate in engineering, environmental science or chemistry. Knowledge and experience involving engineered water treatment processes (including pilot operation), emerging contaminants, nanoparticles, organic matter characterization and/or toxicity monitoring is preferred.

**MINIMUM QUALIFICATIONS:**

Graduation from a college or university with a doctorate in analytical chemistry, inorganic chemistry, engineering or another relevant scientific discipline. Knowledge and experience involving water treatment processes is required.

**KNOWLEDGE OF:** Theory, principles, practices, methods, chemicals and agents used in chemical and physical analysis and testing of water; water sample preparation methods; laboratory procedures for water analysis; methods and processes used in raw water treatment, including membranes, ozone, chlorine and activated carbon; federal EPA regulations and Safe Drinking Water Act; the operation and maintenance of applicable complex, laboratory instrumentation and related computer programs and software; programmable laboratory equipment; federal EPA methodologies; the use of standard laboratory glassware, beakers, flasks, pipettes, etc.; safe laboratory practices and procedures; quality control techniques.

**ABILITY TO:** Design and implement scientific studies and research related to the treatment and monitoring of unregulated contaminants and formation of byproducts, utilizing newly developed and emerging analytic methods and technologies; operate a computer and complex automated/programmable laboratory instrumentation; apply principles and scientific methods to the
development of new methodologies for identifying unregulated compounds and contaminants; prepare accurate reports and records of test results and special analyses; conduct original research; present scientific data clearly and concisely, both orally and in writing; establish and maintain effective working relationships with co-workers, outside consultants and researchers and others encountered in the course of work.

PHYSICAL AND MENTAL DEMANDS:

While performing the duties of this class, employees are regularly required to walk; talk or hear by telephone and in person; sit; climb or balance; smell; use hands to finger, handle, feel or operate objects, tools, or controls; and reach with hands or arms. Employees are frequently required to stand. Specific vision abilities required by this job include close vision, distance vision, the ability to distinguish basic colors and shades, depth perception and the ability to adjust focus. Employees must frequently lift and/or move up to 10 pounds and occasionally up to 50 pounds.

Post-Doctoral Researcher - Limited Term Supplemental Questionnaire

* 1. IMPORTANT INFORMATION & INSTRUCTIONS This supplemental questionnaire is offered to provide you with the opportunity to fully and clearly explain your background and qualifications for the position. Please complete each section fully. Referral to a resume in lieu of a response on the application or supplemental questionnaire is not acceptable. Incomplete or vague responses may disqualify your application, or reduce the credit given for your qualifications. If the supplemental questionnaire is not completed, your application will be automatically rejected.

☐ Check here to acknowledge you read the statement above.

* 2. NOTE: The Las Vegas Valley Water District does not sponsor work visas for international candidates.

☐ Check here to acknowledge you read the statement above.

3. Please provide a statement of research interests and vision in essay format that describes your:

- Interest in the field of water treatment.
- Long-term career aspirations.
- Experience working with engineered water treatment processes and systems (i.e., drinking water, wastewater, water reuse, advanced technologies). Please include any full- or pilot-scale work experience.
- Research related to water and environmental chemistry (i.e., behavior, fate and transport of contaminants in an aqueous system).
- Experience with research on the toxicity of contaminants.
- Experience related to the analysis and measurement of emerging contaminants and/or organic matter in the water environment. Include the types of analytical instrumentation and equipment you have used in your research.
- Experience developing and writing research proposals and grant applications for external funding of research projects.
- Experience publishing peer-reviewed journal articles. For which published article are you most proud?

IMPORTANT ADDITIONAL INSTRUCTIONS: For your essay, please do not exceed four pages using Times New Roman, font size 12 and single space. "Upload" your essay and Curriculum Vitae to the on-line application.

* Required Question