JOB CLASSIFICATION: Associate Civil Engineer (Water Supply Engineering)

SALARY: $8,694 - $10,567 Monthly
$104,328 - $126,804 Annually

OPENING DATE: Monday, October 12, 2015

CLOSING DATE: Friday, November 13, 2015 by 4:30 p.m. – **EXTENDED**

OPEN TO: General Public

THE POSITION

The East Bay Municipal Utility District (EBMUD) Water Supply Engineering Section is seeking an Associate Civil Engineer who is a motivated and energetic team player with experience in computer simulations, statistical analyses, project management, field investigations, and the evaluation of municipal water and wastewater structures and facilities. The Associate Civil Engineer will also use their technical expertise to assess water quality and water supply impacted by capital projects and water operations in the Central Valley, Delta, and watersheds where EBMUD possesses water rights and a hydropower license.

The most competitive candidates will have strong experience creating, validating, and applying models, documenting the process and results, and the ability to manage others in the process. Possesses strong written and oral communication skills including presentations to management, knowledge of California water rights issues, and an understanding of current water resources planning issues including water conservation and water recycling.

Responsibilities may include:

- Conducting comprehensive civil engineering planning and operational studies of EBMUD water sources, planning future water supply operations, aqueducts, terminal reservoirs, and power plants, estimating future water yields, and providing engineering data for power contracts and agreements with other water diverters.
- Reviewing proposed water rights, water agreements, legal decisions, regulations and legislation to determine technical accuracy and the potential fiscal impact on EBMUD raw water operations, and making appropriate recommendations.
- Conducting comprehensive pilot and full scale studies for water, field, in-plant and office engineering studies related to the planning, design, construction and operation of facilities.
- Preparing engineering economic feasibility and environmental assessment studies on proposed or existing facilities to develop the most economical and environmentally-effective project or operation alternatives.
- Conducting varied engineering analyses in such diverse areas as hydraulics, hydrology, and water resource evaluations.
- Preparing and reviewing engineering drawings, plans, computations, estimates and reports for completeness, accuracy, soundness of applied engineering principles and EBMUD standards.
- Assembling and analyzing data for water use, land use, and population; making projections of water consumption, water quality and other growth factors.
- Preparing preliminary engineering designs, conducting engineering investigations and evaluations related to site reconnaissance and selection, initial and ultimate sizing, budget and construction scheduling for proposed reservoirs, aqueducts, treatment plants, pumping stations, terminal storage facilities and related distribution pipelines.

- Acting as a project manager on major water supply projects, assembling project team(s) and directing the work of subordinate engineers and technicians.
- Preparing project documents including project justifications, budget analyses, preliminary cost estimates, project authorization forms and schedules.
- Performing a variety of hydraulic and statistical computations and analyses related to the planning, design, and operation of water supply facilities.
- Administering outside consultant contracts to include writing and issuing request for qualification (RFQ) and or, request for proposal (RFP), interviewing consultants, reviewing and evaluating proposals, writing contracts and issuing the notice to proceed in order to begin the project.

Salary range for an Associate Civil Engineer (Water Supply Engineering) is $8,694 per month, increasing to $9,129, $9,585, $10,064 and $10,567 after 6, 18, 30, and 42 months.

EBMUD is an Equal Opportunity Employer. All qualified candidates will receive consideration for employment without regard to race, color, religion, sex, sex orientation, gender identity, national origin, or protected veteran status and will not be discriminated against on the basis of disability.

REQUIREMENTS
A typical means of acquiring the essential knowledge and abilities is:

1. A bachelor's degree in an ABET-accredited civil or geotechnical engineering curriculum OR a California EIT Certificate;
2. Four years of professional civil, geotechnical and/or sanitary engineering experience (subsequent to obtaining the degree), which is equivalent to two years of experience at EBMUD's Assistant Engineer level; AND
3. Registration as a Professional Civil Engineer in the state of California.

THE SELECTION PROCESS
1. Submit a completed EBMUD application and the required supplemental question responses online at www.ebmud.com by 4:30 p.m., Friday, November 13, 2015. Only application materials submitted online during the filing period will be accepted.
2. All qualified applications and supplemental responses will be competitively evaluated, with those candidates demonstrating the strongest qualifications for the position to be invited to a panel interview expected to be held in late November or early December 2015.
3. Successful candidates will be placed on the hiring list, based on rank, for further consideration to fill the regular vacancy, as well as others occurring over the next 12 to 24 months.

SUPPLEMENTAL QUESTIONS
As the first step in the selection process, responses to the supplemental questions must be submitted online with the regular EBMUD application. Your responses to these supplemental application questions and your EBMUD application will be evaluated on a competitive basis, and only candidates scoring highest in the competitive review will continue in the selection process. Therefore, please provide thorough, accurate descriptions of assignments you have personally performed. Your responses should demonstrate your ability to write concise and well-organized documents using correct grammar, spelling, and punctuation.

1. Are you registered in the state of California as a Professional Civil Engineer?
2. List your P.E. license number.

3. Please describe an engineering project management experience where you directed a multi-disciplinary project team. Describe the project, your roles and responsibilities, challenges on the project, how you resolved the challenges, budget and schedule, and whether the project was completed successfully and why.
4. Please describe your experience using computer simulations to analyze complex engineering or operational systems.
5. Please describe your experience developing engineering solutions using complex statistical analyses of data.