JUNIOR ENGINEER  
(11 Positions)

Job Announcement No.: 5726 GN/LM  
Application Filing Period: April 24, 2008 – May 22, 2008, 4:45 pm  
Monthly Salary Range: $4,560 - $6,008 ($54 - $72K)  
Hourly Salary Range: $26.31 - $34.66  
Locations: Various  
Job Hotline: 1-800-540-6311  
www.mwdh2o.com

*Interviews to be held June 4, 2008 – June 12, 2008*

Metropolitan proudly promotes equal opportunity and diversity in both its employment programs and business contracting opportunities.

**JOB INFORMATION**

The Engineering Services Section currently has 11 openings for Junior Engineers in the following areas: Design, Construction Inspection and Facility Planning.

These are entry-level professional engineering positions. Metropolitan Engineers can expect to work on some of the largest water treatment and conveyance projects in the world. We deliver an average of 1.7 billion gallons of water per day to a 5,200-square mile service area in Southern California ranging from Ventura County to the Mexican border. Metropolitan owns and operates:

- 5 water treatment plants, the largest of which delivers 750 million gallons of water per day;
- The Colorado River Aqueduct, a 242-mile conveyance system designated as a national historic engineering landmark by the American Society of Civil Engineers, which conveys 1.7 billion gallons of water per day from Lake Havasu to Southern California;
- 775 miles of pipelines, ranging up to nearly 20 feet in diameter; and
- Numerous pumping plants, hydroelectric generating stations, and support facilities.

Metropolitan Engineers plan, design and manage construction of new facilities, and modify existing facilities to ensure delivery of high quality water to approximately 18 million people in Southern California.

Junior Engineers hired through this recruitment will work with engineers, project managers, construction managers, water system operations staff, and technical specialists in an exciting, challenging environment with broad opportunities for career advancement.

COME JOIN OUR WINNING TEAM – WE TAP ONLY THE BEST!
Applicants need not have a degree at the time of application. However, degree must be completed by date of hire, July 31, 2008.

**JOB REQUIREMENTS**

**Minimum Requirements:**
- A Bachelor’s degree from an accredited college or university in an appropriate field of engineering OR successful completion of the California Engineer-In-Training examination.

**Physical Requirements: Class 2 – Light Work**
This class includes administrative and clerical positions requiring light physical effort which may include occasional light lifting to a 10-pound limit and some bending, stopping, or squatting. Considerable walking may be involved.

**Selection Procedure:**
- The application and response to supplemental questionnaire will be used to screen an applicant’s ability to meet the minimum requirements. Based on a comparative analysis, only those applicants demonstrating the strongest background will be invited for testing.*
- Those applicants invited for testing will participate in a multi-part competitive examination process. The exam will consist of a written test and an oral panel interview.
- Please note, if supplemental questions are not received with the application, your application will not be considered for the position.

*Metropolitan policy provides for all internal applicants to participate in all portions of the examination process if they meet the minimum requirements.

If the position requires a college/university degree, said degree must have been issued by an educational institution recognized as accredited by the United States Department of Education. Degrees issued by educational institutions outside the United States must include documentation validating the equivalency of that degree to the same degree in the United States to be considered acceptable for Metropolitan purposes.

**Job-Related Selection Criteria:**
- Job Preparation (education, experience and training relevant to the position) 20%
- Technical Knowledge 30%
- Initiative 5%
- Interpersonal Effectiveness/Teamwork 10%
- Customer Service 10%
- Oral Communication Skills 10%
- Written Communication Skills (written exam) 15%

Total 100%
DESCRIPTION OF POSITIONS:

**Job #1: General Design Team - General Civil and Geotechnical Engineers** – (3) Openings
These are civil engineering positions responsible for design of water distribution and treatment facilities. The work typically includes design and preparation of plan and profiles for pipelines, open channels, paving, grading and drainage, and may include geotechnical engineering analyses for foundations, retaining structures, excavations, and seismic hazards.

Work Location: Union Station; Los Angeles, CA

**Job #2: Pipeline/Facilities Design Team - Civil Engineer, with emphasis in Structural Engineering** – (1) Opening
This is a structural engineering position responsible for design of structural elements for water distribution and treatment plant facilities. The work typically includes the design of water-bearing structures, buildings, and pipelines. These structures are predominantly constructed of steel, concrete, and masonry materials.

Work Location: Union Station, Los Angeles, CA

**Job #3: Power/Instrumentation Design Team – Mechanical/Electrical/Chemical Engineer** – (1) Opening
This position will be responsible for instrumentation and control designs. The work typically includes development of process flow diagrams (PFD) and piping and instrumentation diagrams (P&ID) for water treatment and distribution facilities, along with loop descriptions for process controls, and procurement of control equipment.

Work Location: Union Station, Los Angeles, CA

**Job #4: Treatment Plant/Equipment Design Team – Mechanical Engineer or Civil Engineer with emphasis in Environmental Engineering** – (2) Openings
These positions will be responsible for design of water treatment plant processes and equipment. The work typically includes engineering and start-up support for chemical feed systems including ozone, sulfuric acid, caustic soda, polymers, alum, chlorine, ammonia, and fluoride; and design and testing/commissioning of large valves, pumps, turbines, and treatment plant equipment.

Work Location: Union Station, Los Angeles, CA

**Job #5: Facility Planning Team – General Civil Engineer** – (1) Opening
This is a civil engineering position responsible for conceptual planning studies for future water treatment and conveyance facilities and for conducting system reliability studies aimed at assuring the long-term reliability of Metropolitan’s facilities. The work typically includes engineering analyses, research, report preparation, and presentations for facility planning and infrastructure reliability projects.

Work Location: Union Station, Los Angeles, CA
Job #6: Field Inspection Teams - General Civil Engineers –
(3) Openings
These are civil engineering positions responsible for engineering support to active construction projects. The work typically includes researching contract documents and project plans and specifications, and close collaboration with resident engineers, inspectors, project managers and design engineers. Additional work may include inspection duties on active construction sites, review of contractor-prepared submittals and critical path method (CPM) construction schedules, and drafting of documents related to construction contracts.

Work Location: Weymouth Treatment Plant, La Verne, CA

JUNIOR ENGINEER JOB DESCRIPTION

The functions of this classification include, but are not limited to:
• Performs or assists in research, drafting, computing, checking and field work needed in the preparation of plans, designs, estimates, and specifications for the construction, maintenance and operation of a wide variety of projects.
• Applies theories and principles of engineering to established criteria and to perform engineering design.
• Conducts field inspections and testing to check performance or conformity to plans and specifications.
• Prepares, maintains and reports statistical, technical or analytical engineering related data.
• Reviews and analyzes various correspondence, analyses, reports and other material prepared by others for verification of accuracy and completeness. Reviews or prepares abstract or extract for relevant content.
• Performs other related work as assigned.

Job Description No.: 110              Pay Grade: 37             Bargaining Unit:  AFSCME - Unit 02

Work Schedule: 44/36 (Alternate Friday’s off) for Los Angeles location and 5/80 (5 days per week Mon-Fri) for La Verne and field locations.

SUPPLEMENTAL QUESTIONNAIRE

This supplemental questionnaire must be completed and returned with your MWD application packet in order to be considered for the position. Please note, if supplemental questions are not received with the application, your application will not be considered for the position.

• Be concise and use no more than one typed page for each answer. If applying for multiple positions, please answer the supplemental questions accordingly for each position.
• Your name and the last four digits of your social security number must be at the top of each page.

1. Please list engineering courses you have taken that relate to the desired position. Which one did you like the most and why? Which one did you dislike the most and why?

2. Please discuss an engineering project (related to the desired position) which you have worked on in school or at a place of employment. Describe the type of project and your role in the project. Describe some of the technical challenges or difficulties associated with this project.
ENGINEERING DISCIPLINE AND LOCATION

Place a check mark by the position(s) you wish to be considered for. You may check more than one box.

<table>
<thead>
<tr>
<th>CHECK BELOW</th>
<th>DISCIPLINE</th>
<th>LOCATION</th>
</tr>
</thead>
</table>
| **Job #1**  | General Design Team  
General Civil & Geotechnical Engineers | Union Station  
Los Angeles |
| **Job #2**  | Pipeline/Facilities Design Team  
Civil Engineer, with emphasis in Structural Engineering | Union Station  
Los Angeles |
| **Job #3**  | Power/Instrumentation Design Team  
Mechanical/Electrical/Chemical Engineer | Union Station  
Los Angeles |
| **Job #4**  | Treatment Plant/Equipment Design Team  
Mechanical Engineer or Civil Engineer with emphasis in Environmental Engineering | Union Station  
Los Angeles |
| **Job #5**  | Facility Planning Team  
General Civil Engineering | Union Station  
Los Angeles |
| **Job #6**  | Field Inspection Teams  
General Civil Engineers | Weymouth Treatment Plant  
La Verne |

APPLICATION FILING PROCESS

- The following are required for a complete application packet:
  1. MWD job application
  2. Supplemental questionnaire and response to questions.
- The completed application packet MUST BE received and date/time-stamped (not post-marked) by MWD’s Human Resources Section (700 North Alameda Avenue, Los Angeles) before 4:45 p.m. of the closing date. Mailing address: P.O. Box 54810, Los Angeles, CA 90054-0810. Application packages may also be faxed to 213-217-7770 in order to meet the deadline, but must be followed up by an original.
- Reasonable accommodations for people with disabilities may be requested by calling (213) 217-7738 at least 5 working days in advance of the scheduled examination date(s).
- While all categories of employment may apply and participate in the recruitment process, the hiring supervisor shall consider the top six (6) qualified Category A (regular full-time) and Category B (regular part-time) employees first. If a Category A or B candidate is not selected, the hiring supervisor may then consider any other qualified candidates in the recruitment.