



**LOUISVILLE METROPOLITAN SEWER DISTRICT  
invites applications for the position of:**

**Engineer II/III / Grade 18, 19**

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**SALARY:** \$29.66 - \$45.62 Hourly  
\$61,692.80 - \$94,889.60 Annually

**OPENING DATE:** 05/10/21

**CLOSING DATE:** 05/21/21 11:59 PM

**JOB SUMMARY:**

***This position will be filled as a Engineer II or Engineer III based on candidate qualifications. Salary ranges are as follows:***

***Engineer II: \$61,692.80 - \$94,889.60***

***Engineer III: \$66,518.40 - \$103,084.80***

**Engineer II**

Provides engineering services related to routine privately and publically funded wastewater, stormwater, and flood protection infrastructure projects. Performs technical analysis activities, ensuring adherence to MSD specifications/design standards and appropriate local, state, and federal regulations/guidelines. Performs design through commissioning project management activities. Manages technical initiatives such as developing system hydraulic and hydrologic models, leading long-term planning and solution development initiatives, leading compilation and analyses of data, providing written summations to support regulatory and programmatic initiatives, developing regulatory reports and technical documents with technical writing proficiency, and developing Standard Operating Procedures (SOPs). Leads the development and implementation of programmatic initiatives related to KPDES Permit compliance, Consent Decree compliance, asset management, USACE Flood Protection System operation and maintenance, Municipal Separate Storm Sewer System (MS4) permit compliance, Green Infrastructure planning, Community Rating System (CRS) Program implementation, Floodplain Management planning and watershed master planning. Coordinates internal/external stakeholder input meetings. Mentors division staff to develop technical job functions/skills and leadership/management abilities.

**Engineer III**

Provides engineering services related to complex privately and publically funded wastewater, stormwater, and flood protection infrastructure projects. Performs technical analysis activities, ensuring adherence to MSD specifications/design standards and appropriate local, state, and federal regulations/guidelines. Performs design through commissioning project management activities. Manages complex technical initiatives such as assessing design appropriateness, conducting diagnostic infrastructure construction progress and quality of work assessments, evaluating system capacity assurance and mitigation initiatives, conducting compliance vulnerability assessments and corrective action initiatives, analyzing data, providing written summations to support regulatory and programmatic initiatives, developing regulatory reports and technical documents, and developing Standard Operating Procedures (SOPs). Leads the development and implementation of complex programmatic initiatives related to KPDES Permit compliance, asset management, USACE Flood Protection System operation and maintenance, Municipal Separate Storm Sewer System (MS4) permit compliance, Green Infrastructure planning, Community Rating System (CRS) Program implementation, Floodplain Management planning and watershed master planning. Leads internal/external stakeholder input meetings.

Develops and maintains quality assurance and quality control procedures for technical and programmatic initiatives within the division. Mentors staff within the division to develop technical job functions/skills and leadership/management abilities.

## **ESSENTIAL JOB FUNCTIONS:**

### Engineer II

Provides engineering services related to routine privately and publically funded wastewater, stormwater, and flood protection infrastructure projects. Performs technical analysis activities, ensuring adherence to MSD specifications/design standards and appropriate local, state, and federal regulations/guidelines. Manages technical initiatives such as developing system hydraulic and hydrologic models, leading long-term planning and solution development initiatives, leading compilation and analyses of data, providing written summations to support regulatory and programmatic initiatives, developing regulatory reports and technical documents with technical writing proficiency, and developing Standard Operating Procedures (SOPs). Leads the development and implementation of programmatic initiatives related to KPDES Permit compliance, asset management, USACE Flood Protection System operation and maintenance, Municipal Separate Storm Sewer System (MS4) permit compliance, Green Infrastructure planning, Community Rating System (CRS) Program implementation, Floodplain Management planning and watershed master planning. Performs design through commissioning project management activities such as procuring planning, design and construction services, developing project cost estimates, tracking and managing assigned project schedules and budgets, developing risk management plans and schedule/budget variance recovery plans, coordinating with project internal/external stakeholders, coordinating with regulating entities and participating in public input meetings. Performs public speaking to internal and external stakeholders in various settings. Leads initiatives to resolve routine customer requests related to wastewater, stormwater, and flood protection infrastructure. Follows processes and procedures for expenditures in accordance with the MSD Procurement Regulations and Board Policies. Mentors Engineer Is, Engineering Co-Ops, Associate Engineer Is, and Engineering Technicians to develop technical job functions/skills and leadership/management abilities. Performs quality assurance reviews for own work and divisional staff work products, including evaluation for completeness, grammar, punctuation, and accuracy. Submits records for working files and final retention per MSD policy and procedures. Performs duties of Engineer I as needed and other duties as assigned.

### Engineer III

Provides engineering services related to complex privately and publically funded wastewater, stormwater, and flood protection infrastructure projects. Performs technical analysis activities, ensuring adherence to MSD specifications/design standards and appropriate local, state, and federal regulations/guidelines. Performs design through commissioning project management activities such as procuring planning, design and construction services, developing project cost estimates, tracking and managing assigned project schedules and budgets, developing risk management plans and schedule/budget variance recovery plans, coordinating with project internal/external stakeholders, coordinating with regulating entities and participating in public input meetings. Manages complex technical initiatives such as assessing design appropriateness, conducting diagnostic infrastructure construction progress and quality of work assessments, evaluating system capacity assurance and mitigation initiatives, conducting compliance vulnerability assessments and corrective action initiatives, analyzing data, providing written summations to support regulatory and programmatic initiatives, developing regulatory reports and technical documents, and developing Standard Operating Procedures (SOPs). Leads the development and implementation of complex programmatic initiatives related to KPDES Permit compliance, asset management, USACE Flood Protection System operation and maintenance, Municipal Separate Storm Sewer System (MS4) permit compliance, Green Infrastructure planning, Community Rating System (CRS) Program implementation, Floodplain Management planning and watershed master planning. Performs public speaking to internal and external stakeholders in various settings. Leads initiatives to resolve complex customer requests related to wastewater, stormwater, and flood protection infrastructure. Leads system capacity assurance identification and mitigation initiatives.

Leads compliance vulnerability assessments and corrective action plan initiatives. Leads internal and external training initiatives for technical and/or programmatic activities. Develops and maintains quality assurance and quality control procedures for technical and programmatic initiatives within the division. Performs quality assurance reviews for own work and divisional staff work products, including evaluation for completeness, grammar, punctuation, and accuracy. Follows processes and procedures for expenditures in accordance with the MSD Procurement Regulations and Board Policies. Mentors Engineers I and II, Engineering Co-Ops, Associate Engineers, and Engineering Technicians to develop technical job functions/skills and leadership/management abilities. Submits records for working files and final retention per MSD policy and procedures. Performs duties of Engineer II as needed and other duties as assigned.

## **KNOWLEDGE, SKILLS AND ABILITIES NECESSARY TO THE WORK:**

### Engineer II

Knowledge of wastewater, stormwater, and flood protection infrastructure design and construction practices; knowledge of the National Pollutant Discharge Elimination System (NPDES) wastewater and stormwater regulations and permitting requirements, US Army Corps of Engineers regulations and permitting requirements and applicable local regulations and permitting requirements; knowledge of engineering principles, hydraulic/hydrologic calculations, modeling, and design methods, surveying, and general construction practices/methods; knowledge of MSD Design Manual, Standard Drawings and Standard Specifications, Metropolitan Subdivision Regulations and Zoning, Erosion Prevention and Sediment Control (EPSC) and Local Regulatory Floodplain and other environmental regulations; skill in project management and procurement of engineering and construction services; skill in oral and written communication, including public speaking; skill in technical writing; skill in operating a PC and associated Windows environment software (e.g. Microsoft Office Suite); ability to read, interpret and discuss detailed construction plans and topo maps; ability to manage, plan and effectively prioritize multiple projects and initiatives; ability to analyze complex problems and develop reasonable solutions; ability to exercise sound judgment and discretion in decision-making; ability to work in a team environment; ability to be courteous and helpful under pressure; ability to work under heavy surges in workload and deadline pressure; ability to work 24 hour emergency response, various shifts and weekends.

### Engineer III

Knowledge of wastewater, stormwater, and flood protection infrastructure design and construction practices; knowledge of the National Pollutant Discharge Elimination System (NPDES) wastewater and stormwater regulations and permitting requirements, US Army Corps of Engineers regulations and permitting requirements and applicable local regulations and permitting requirements; knowledge of engineering principles, hydraulic/hydrologic calculations, modeling, and design methods, surveying, and general construction practices/methods; knowledge of MSD Design Manual, Standard Drawings and Standard Specifications, Metropolitan Subdivision Regulations and Zoning, Erosion Prevention and Sediment Control (EPSC) and Local Regulatory Floodplain and other environmental regulations; skill in project management and procurement of engineering and construction services; skill in oral and written communication, including public speaking; skill in technical writing; skill in operating a PC and associated Windows environment software (e.g. Microsoft Office Suite); ability to read, interpret and discuss detailed construction plans and topo maps; ability to manage, plan and effectively prioritize multiple activities and projects; ability to analyze complex problems and develop reasonable solutions; ability to exercise sound judgment and discretion in decision-making; ability to work in a team environment; ability to be courteous and helpful under pressure; ability to work under heavy surges in workload and deadline pressure; ability to work 24 hour emergency response, various shifts and weekends.

**MINIMUM REQUIREMENTS:****Engineer II**

Bachelor Degree from an ABET accredited engineering program. Must possess a Kentucky Professional Engineer's License or ability to obtain through state reciprocity within 6 months.

Four or more years of related experience. Masters of Engineering Degree may be substituted for 1 year of experience. Must possess a valid driver's license. Must have safe work and driving habits.

**Engineer III**

Bachelor Degree from an ABET accredited engineering program. Must possess a Kentucky Professional Engineer's License (or ability to obtain through state reciprocity within 6 months) and four or more years of related experience post-attainment of a Professional Engineer's License. Must possess a valid driver's license. Must have safe work and driving habits.

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APPLICATIONS MAY BE FILED ONLINE AT:  
<http://www.louisvillemsd.org>

Position #PA21-059  
ENGINEER II/III / GRADE 18, 19  
DH

700 W. Liberty Street  
Louisville, KY 40203

[hr@neogov.com](mailto:hr@neogov.com)

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**Engineer II/III / Grade 18, 19 Supplemental Questionnaire**

\* 1. Do you have a Bachelor's Degree from an ABET accredited engineering program?  
 Yes    No

\* 2. Do you have a Kentucky Professional Engineer's License?

\* 3. How many years of relevant experience do you possess?

\* 4. Please briefly describe your relevant experience.

\* Required Question