

### **POSITION DESCRIPTION**

Maurer-Stutz, Inc. is seeking an entry-level engineer to work primarily in our Water-Wastewater Department and provide civil engineering assistance to other departments as determined by project workloads. As an entry-level engineer, candidates will participate in the planning, design, and construction observation of urban and rural water distribution systems, wastewater pump stations, water and wastewater treatment facilities, EPA Capacity, Management, Operation and Maintenance (CMOM) studies and other significant water-wastewater and infrastructure projects.

### **EXAMPLES OF RECENT WATER-WASTEWATER DESIGN PROJECTS:**

- ▣ Water Main planning, design and construction observations for local public and private water utilities
- ▣ Major water treatment plant improvements
- ▣ Major wastewater treatment plant upgrades
- ▣ Wastewater planning studies for unsewered communities
- ▣ Design of a major wetland pump station and force main along the Illinois River
- ▣ Construction observation for the painting of several unique local water towers
- ▣ Sewage pumping stations with gravity sewers and force mains
- ▣ Septic and combined sewer system designs

### **WATER-WASTEWATER ENGINEER RESPONSIBILITIES:**

- ▣ Assist water and wastewater staff in planning and design projects including water mains, sewer systems, pump stations, force mains, and treatment plants
- ▣ Perform hydraulic analyses for open channel and closed conduit systems
- ▣ Perform storm water evaluations
- ▣ Analyze and design drainage system pumping stations
- ▣ Design storm water detention facilities
- ▣ Assist with design of combined sewer overflow projects
- ▣ Prepare site designs
- ▣ Prepare construction drawings and specifications
- ▣ Prepare permits for construction and environmental signoff
- ▣ Assist with construction administration and observation services

### **BASE REQUIREMENTS:**

- ▣ Bachelor's degree in Civil Engineering with appropriate water-wastewater engineering course work
- ▣ Registered Engineer Intern (Or Intent to take the Fundamentals of Engineering Exam)
- ▣ Willingness and intent to become licensed as a Professional Engineer
- ▣ Familiarity with CAD Software (including AutoDesk AutoCAD and/or Civil3D, HydroCAD, etc.)
- ▣ Strong organizational and communication skills (both verbal and written)
- ▣ Attention to detail and good problem-solving skills
- ▣ Good interpersonal skills