

## **Grant Activity Overview**

The Detroit Employment Solutions Corp (DESC) is currently working with Great Lakes Water Authority (GLWA) to support three separate apprenticeship grant programs.

1. GLWA Water Tech Apprenticeship (WTA) Program
2. GLWA Electrical (EICT-E) Apprenticeship Program
3. GLWA Mechatronics Tech Apprenticeship (Instrumentation) Program

All three programs provide funding of up to \$5,000 per apprentice. Funding is based on program participation. When an apprentice applies to the program GLWA submits support and an invoice to DESC for reimbursement. GLWA expects at least twenty apprentices to participate in these apprenticeship programs utilizing these grant funds.

## **Proposed Project Scoping/Advance Assistance Activity**

Details of each program are outlined below.

### **GLWA Water Technician Apprenticeship (WTA) Program**

The water technician apprenticeship is a two-year competency-based apprenticeship that combines related training instruction (RTI/college courses) and on-the-job learning. RTI includes courses that provide support for water technician apprentices. Water technicians play an essential role in GLWA's efforts to provide unquestionable quality water to the residents of southeast Michigan. They perform duties in water plant operations, including but not limited to chemical analysis and treatment, process operation, and plant equipment maintenance.

### **GLWA Electrical (EICT-E) Apprenticeship Program**

The electrician maintenance apprenticeship is a five-year apprenticeship that combines related technical instruction (RTI) and on-the-job learning. The RTI courses assist the apprentice with the theory of on-the-job learning skills. Electrical maintenance apprentices install and repair electrical systems, apparatus, and electrical and electronic components of industrial machinery and equipment. Apprentices follow electrical codes, manuals, schematic diagrams, blueprints, and specifications. Tools used while performing on-the-job learning include but are not limited to hand tools, large industrial power tools, test equipment, and forklifts.

### **GLWA Mechatronics Technician Apprenticeship (Instrumentation) Program**

The mechatronics technician apprenticeship is a three-year competency-based apprenticeship that combines related training instruction (RTI/college courses) and on-the-job learning. RTI includes courses that support mechatronics tech apprentices in applying classroom theory to on-the-job learning. Mechatronics (Instrumentation) Technicians play an essential role in GLWA's efforts to provide unquestionable quality water to the residents of southeast Michigan and perform duties in plant operations, including the maintenance and repair of electrical and instrumentation equipment in the plants, field services, and pumping stations.