SYSTEMS ENGINEER

DISTINGUISHING FEATURES OF THE CLASS: The employee in this class is responsible for assigning and coordinating the work of the Information Technology Services Team. The work includes all computer, network, SCADA, PLC, and ancillary data, hardware and software systems. Duties include support and coordination of instrumentation personnel, LAN and computer personnel, as well as SCADA and PLC personnel. This work includes designing, assisting in the installation of systems, and the ongoing maintenance and evaluation of systems. General supervision is exercised over assigned staff. General supervision is received from the Director of Infrastructure Operations. The Systems Engineer performs related work as required.

TYPICAL WORK ACTIVITIES:
Negotiates contracts for services and equipment;
Analyzes new and current computer applications;
Coordinates all computer and instrumentation related projects;
Manages daily work flow of assigned personnel;
Develops and implements system user policies as approved by the Water Board;
Keeps abreast of new technologies;
Monitors system performance and implements upgrade to hardware, software, and security as necessary;
Develops and maintains software for the Water Board;
Coordinates training on all major applications;
Utilizes appropriate test equipment to diagnose and resolve problems;
Ensures timely backup of all critical systems;
Calibrates, configures, programs, troubleshoots and debugs SCADA software and hardware;
Calibrates, configures, programs, troubleshoots and debugs PLC logic and control hardware.

FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS:
Thorough knowledge of current technology involved in programming and systems analysis; thorough knowledge of computer programming, operating systems, and ,networking; thorough knowledge of ladder logic, database structures, and electronic data recording systems; ability to maintain good relationships with other departments; ability to compile and prepare written reports; ability to communicate effectively; physical condition commensurate with the demands of the position.

MINIMUM QUALIFICATIONS: **EITHER**

(A)   Graduation from a regionally accredited or New York State registered college or university with a Bachelor's degree in Computer and/or Information Sciences and four (4) years of paid, full-time experience involving the installation and maintenance of computer systems and computerized plant monitoring and control systems (SCADA);

OR

(B)   Graduation from a regionally accredited or New York State registered college or university with an Associate's degree in Computer and/or Information Sciences and six (6) years of experience as indicated in (A);