Job Title: Program Manager, Monitoring & Control

Announcement Number: #6784*

Position Control Register #5811014

Bargaining Unit: 9

Grade Level: 29

Date Posted: 04/21/15

Last Day for Applying: N/A

Weekly Salary: $1,584.66-$2,140.36

Division/Section: Operations/Waterworks/Ops Engineering/Chelsea

Work Schedule: Monday-Friday 7:30am-3:30pm

BASIC PURPOSE:
Provides technical assistance, engineering support and design in the planning and implementation of systems using instrumentation and control within the MWRA.

SUPERVISION RECEIVED:
Works under the general supervision of the Manager of Operations Engineering.

SUPERVISION EXERCISED:
Supervises staff or consultants as needed.

ESSENTIAL DUTIES AND RESPONSIBILITIES:

- Supports, oversees, and performs planning, design, and implementation of MWRA Operations Department’s instrumentation and control system projects and enhancements.
  Provides engineering support to MWRA Operations including collaboration with process control and SCADA engineers in the creation of written control strategies, SCADA display system design, software configuration and PLC programming.

- Manages and procures consultant work, including writing engineering scopes and overseeing project implementation, in the engineering of monitoring and control systems, development of I/O wiring diagrams, programming of PLCs and SCADA screens, and performance of acceptance testing start-up, and records management.
• Leads the SCADA team in the creation and maintenance of the MWRA SCADA System Standards Manual.

• Performs design reviews of monitoring and control, SCADA and instrumentation aspects of all MWRA projects associated with Water and Wastewater Distribution, collection and Treatment Systems, Odor Control Systems, HVAC Systems located in MWRA facilities and Safety Control Systems from preliminary design to construction.

• Reviews all SCADA, instrumentation, and monitoring and control aspects of projects, including submittal review during construction phase. Coordinates/resolves design and construction issues and participates in start-up and testing operations.

• Provides emergency response support as necessary.

SECONDARY DUTIES:

• Performs related duties as required.

MINIMUM QUALIFICATIONS:

Education and Experience:

(A) Knowledge of instrumentation and control systems as normally attained through a bachelor’s degree in mechanical, electrical, or chemical engineering or related field; and

(B) Seven (7) to nine (9) years experience in hydraulics, instrumentation and control systems design, telemetry, data acquisition and computer systems; or

(C) Any equivalent combination of education or experience.

Necessary Knowledge, Skills and Abilities:

(A) Demonstrated knowledge of instrumentation and control system design, Programmable Logic Controllers, SCADA display systems, UPS systems and control system communication networks.

(B) Working knowledge of communication technology including microwave, radio and fiber optics.

(C) Demonstrated practical understanding of water and wastewater process design and hydraulics including valve and pump control systems, odor control systems and chemical feed systems.

(D) Excellent interpersonal, oral and written communication skills required.
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(E) Proficiency with personal computers, handheld computer devices, and knowledge of Word, Excel, databases and PowerPoint required. AutoCAD preferred.

(F) Demonstrated abilities to work as part of a project team, to develop and maintain productive working relationships with external parties, and to function independently with minimal supervision.

SPECIAL REQUIREMENTS:

A Ma Registered Professional Engineering Certification or eligibility through reciprocity, preferred.

A valid Massachusetts Class D Motor Vehicle Operator’s License

TOOLS AND EQUIPMENT USED:

Office equipment as normally associated with the use of telephone, personal computer including word processing and other software, copy and fax machine.

PHYSICAL DEMANDS:

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the employee is regularly required to use hands to finger, handle, feel or operate objects, tools, or controls and reach with hands and arms. The employee frequently is required to sit and talk or hear. The employee is occasionally required to climb or balance; stoop, kneel, crouch, or crawl

The employee must occasionally lift and/or move up to 25 pounds. Specific vision abilities required by this job include close vision, depth perception, and the ability to adjust focus.
Applications are available online at [WWW.MWRA.com](http://WWW.MWRA.com) or from the Human Resources Department. Completed applications must be received by the Human Resources Department on or before the closing date indicated above.

Massachusetts Water Resources Authority
Charlestown Navy Yard
100 First Ave.
Boston, MA  02129
ATTN:  Andrea Murphy, Employment Manager

Massachusetts Water Resources Authority (MWRA) is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, national or ethnic origin, age, religion, disability, sex or gender, sexual orientation, gender identity or expression, or veteran status.

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