



SESD

Wastewater Treatment
For a Cleaner Environment

Application procedure and submission requirements for the position of **Lead Instrumentation/Electrical Technician**.

General

All requirements for the submission of an application for the subject position are set forth herein.

- First date of advertisement: October 8, 2024.
- Application deadline: October 29, 2024.
- Application submissions may be:

-Mailed: Pamela Geiser | Executive Assistant & Outreach Coordinator SESD P.O. Box 989 Salem, MA 01970.

-Emailed: pgeiser@sesd.com.

-or Hand Delivered: Pamela Geiser | Executive Assistant & Outreach Coordinator SESD Administration Building, 2nd Floor, 50 Fort Avenue, Salem, MA 01970.

Contents of Application Submittals

Application submittal must include the following documents:

[Item A] A signed original cover letter addressed to David Michelsen, P.E. | Executive Director. The letter must be an explanation describing how the applicant's education, background, experience, and qualifications meet the requirements of the job description for the position, and a statement describing the applicant's intention to perform the responsibilities of the position.

[Item B] An up-to-date resume with copies of supporting qualifications and experience documentation such as diplomas, degrees, certificates, college transcripts, and licenses along with a fully completed and signed SESD Job Application with a list of References.

District Review of Application Submittals

Each application submittal will be reviewed for timeliness, completeness, content, and attention to detail. SESD reserves the right to reject application packages that fail to satisfy all time, procedural, and submission requirements. Starting pay rate commensurate with qualifications and experience. For additional information, please contact Pam at (978)744-4550 x213.

Pay Rate Schedule

Hourly	Annual
Step 1 - \$33.8824	Step 1 - \$70,475.49
Step 2 - \$36.5232	Step 1 - \$75,968.15
Step 3 - \$39.3706	Step 1 - \$81,890.94

Attachments: Lead Instrumentation/Electrical Technician Job Description and SESD Job Application

South Essex Sewerage District

50 Fort Avenue, P.O. Box 989

Salem, MA 01970

(978)744-4550 | SESD.com

LEAD INSTRUMENTATION/ELECTRICAL TECHNICIAN

Definition

Skilled technical and mechanical work maintaining and repairing electrical operating and control systems, equipment and fixtures of the wastewater treatment plant, pumping stations, and other facilities; all other related work as required.

Recommended Minimum Qualifications

Education and Experience

High school graduation, or equivalent, and advanced technical training with engineering and electronics highly desirable; six to eight years electrical experience, of which three to four years should be in three-phase, 480-volt or higher, and three to five years in industrial; or an equivalent combination of education and experience.

Special Requirements

Massachusetts Journeyman Electrician's License

Valid Driver's License

Massachusetts Wastewater Operators License Desirable

Knowledge, Ability and Skill

Knowledge. Thorough knowledge of instrumentation, electrical and control systems related to wastewater treatment machinery, equipment and other facilities. Thorough knowledge of testing procedures and methods of repair for flowmeters, gauges, indicators, counters or detectors and other recording, indicating or controlling instruments associated with wastewater collection, treatment and processing. Thorough knowledge of how these systems and equipment are repaired and maintained. Knowledge of approved methods, practices, code requirements and safety standards.

Ability. Ability to prepare routine maintenance reports and maintain accurate records. Ability to perform limited supervisory duties. Ability to react promptly and efficiently in emergencies. Ability to interpret technical manuals, specifications, wiring diagrams, schematics and codes; ability to use hand and power tools; ability to troubleshoot instrumentation, electrical and control malfunctions.

Skill. Excellent communication skills, both oral and written. Strong organizational skills.

Physical Requirements

Moderate to strenuous physical effort generally required to perform work, including bending, walking, climbing, reaching, and standing. Frequently required to move (push, pull, lift or carry) objects weighing up to sixty (60) pounds. Sometimes works in confined areas for extended periods of time. Must be able to access all areas of a multi-level facility. Frequently required to operate hand, power, and various tools, such as drills, saws, hydraulic punches and cutters, standard and special electrical tools and equipment, such as voltmeters, ammeters, and

synchrosopes requiring manual dexterity. Excellent eyesight (sharp, close, distance, color, peripheral, and depth vision) and hearing well within normal ranges.

Supervision

Works under the general supervision of the Instrumentation/Electrical Specialists or the Assistant Superintendent of Maintenance.

Performs technical and mechanical functions requiring the-exercise of independent judgment, setting priorities, and the use of proper technical methods.

Provides limited supervision to one or more full-time maintenance department employees.

Job Environment

Work is generally performed under shop and field conditions, with potential exposure to loud noises, heights, toxic or caustic chemicals, fumes or airborne particles, near moving parts, and frequent risk of electrical shock; some work is performed outside, with exposure to variable weather conditions.

Has contact with District staff and some contact with vendors.

Errors in judgment could lead to danger, delay or loss of service, damage to equipment, injury to self and others, and legal ramifications to the District.

Adheres to the District's safety rules, regulations and policies.

Essential Functions

The essential functions or duties listed below are intended only as illustrations of the various types of work that may be performed. The omission of specific statements of duties does not exclude them from the position if the work is related, or a logical assignment to the position.

Inspects, repairs and maintains instrumentation, electrical, electrical/mechanical, and/or electronic operating and control systems, equipment and fixtures, including power, lighting, heating and cooling systems.

Provides support to the instrumentation/electrician technician(s); including hands-on leadership, advice and experience, manufacturer, vendor and supplier information, code requirements, and information about replacement parts and tools.

Inspects, repairs and installs new wiring outlets, panels and meters. Installs new electrical, instrumentation and electronic equipment.

Performs preventive maintenance, calibration and repair work on pneumatic and electrical instruments, controls and computer-based controls, such as PLCs and logic controllers.

Disassembles, cleans, repairs, assembles, calibrates, adjusts, and returns to service pneumatic and electronic controllers, sensors and transmitters; checks instruments for proper functioning while in operation.

Adjusts, repairs and calibrates metering pumps and equipment.

Adjusts speed control equipment for proper operation.

Following installation, sets up new or rebuilt equipment.

Troubleshoots and isolates instrument and control malfunctions and failures.

Consults with supervisor and/or manufacturer's representative on difficult repairs.

Performs other highly specialized maintenance as directed.

May be required to register/supervise an electrical apprentice.

Prepares labor and materials estimates.

Assists in keeping maintenance records.

Provides limited supervision to the Instrumentation/electrical technician(s).

Performs high voltage switching and coordinates switching in the absence of the Instrumentation/Electrical Specialists.

Cleans work area after repairs.

SOUTH ESSEX SEWERAGE DISTRICT

50 FORT AVENUE, P.O. BOX 989

SALEM, MA 01970

APPLICATION FOR EMPLOYMENT

Applicants will receive consideration without discrimination on the basis of race, color, sex, age, national origin, disability, religion, veteran status, gender identity, sexual orientation, genetic information or any other category protected by federal, state or local law.

P E R S O N A L	Last Name	First	M.I.	
	Street Address		Home Telephone ()	
	City, State, Zip Code		Cell Phone ()	
	Have you ever applied for employment with us? [] Yes [] No If yes: Month and Year _____			
	Position Desired		Pay Expected	
	Apart from absence for religious observance, are you available for full-time work? [] Yes [] No If not, indicate hours available _____		Will you work overtime if asked? [] Yes [] No	
	Are you legally eligible for employment in the United States? <small>(If hired, you will be required to verify your identity and eligibility to work in the United States.)</small>		When will you be available to begin work?	
	Are you 18 years of age or older? [] Yes [] No If not, employment subject to verification of age.		Date of Application / /	

	School	Name and Location of School	Course of Study	No. of Years Completed	Did you Graduate?	Degree or Diploma
E D U C A T I O N	Elementary				[] Yes [] No	
	High School				[] Yes [] No	
	Business/ Trade/ Technical				[] Yes [] No	
	College				[] Yes [] No	
	Graduate				[] Yes [] No	

EMPLOYMENT HISTORY

Please give accurate, complete full-time and part-time employment records. Start with your present or most recent employer. You may include volunteer experience.

1	Company Name	Telephone ()
	Address	Employed – (month and year) From / To /
	Name of Supervisor	
	State Job Title and Describe Your Work	Reason for Leaving

2	Company Name	Telephone ()
	Address	Employed – (month and year) From / To /
	Name of Supervisor	
	State Job Title and Describe Your Work	Reason for Leaving

3	Company Name	Telephone ()
	Address	Employed – (month and year) From / To /
	Name of Supervisor	
	State Job Title and Describe Your Work	Reason for Leaving

4	Company Name	Telephone ()
	Address	Employed – (month and year) From / To /
	Name of Supervisor	
	State Job Title and Describe Your Work	Reason for Leaving

We may contact the employers listed above unless you indicate those you do not want us to contact.

DO NOT CONTACT

Employer Number(s)	Reason
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MILITARY	Did you serve in the U.S. Armed Forces? [] Yes [] No	If "Yes", in what branch?
Describe any training received relevant to the position for which you are applying.		
OTHER TRAINING	Other special training, certifications, licenses or skills.	
MEMBERSHIPS AND ORGANIZATIONS	List your memberships or participation in any trade or professional organizations.	

IT IS UNLAWFUL IN MASSACHUSETTS TO REQUIRE OR ADMINISTER A LIE DETECTOR TEST AS A CONDITION OF EMPLOYMENT OR CONTINUED EMPLOYMENT. AN EMPLOYER WHO VIOLATES THIS LAW SHALL BE SUBJECT TO CRIMINAL PENALTIES AND CIVIL LIABILITY.

In signing this application, I certify that the information that I have provided is true, complete and accurate. I understand that any false statements or omissions in the application process will be grounds for rejection of my application, or termination of employment if I become employed.

By submitting this application, I hereby authorize the District to verify the information contained on my application for employment and agree to release the District from any and all liability resulting from the verification process.

I understand that any offer of employment is subject to my successful completion of the District's hiring process, and that this employment application is not an offer of employment by the District.

I understand that if offered employment by the District such employment (unless governed by a collective bargaining agreement containing different provisions) is at will, subject to termination by me or the District at any time, with or without cause. No representative of the District, other than the Board of Directors, has authority to enter into an agreement for employment for any specified period of time.

I authorize and request that my present and former employers furnish information to the District about my employment record, including information as to my job performance, abilities, reasons for separation, and other information relevant to my qualifications for employment. I hereby release and discharge my present and former employers, and their agents and employees, from any and all liability and damages arising from furnishing the requested information.

Signature of Applicant

Date