



Solid Waste Infrastructure Engineer

General Summary

The Solid Waste Infrastructure Engineer provides technical leadership to ensure ecomaine's landfill operates safely, efficiently, and in full compliance with its Operating License and all applicable State of Maine and Federal environmental regulations. This role leads engineering design, regulatory interpretation, technical analysis, and infrastructure development for landfill systems including cells, liners, leachate, stormwater, and gas management. In addition to landfill responsibilities, the Solid Waste Infrastructure Engineer also supports engineering needs across all ecomaine facilities—including Recycling and Waste-to-Energy (WTE)—by providing technical expertise, design review, and project support as required.

Essential Job Functions and Duties

Engineering Design & Technical Leadership

- Lead the engineering design, planning, and development of Solid Waste infrastructure, including landfill cells, liner systems, leachate collection systems, stormwater controls, gas management systems, and access roads.
- Prepare and review engineering drawings, technical specifications, construction documents, and cost estimates for landfill and other ecomaine facility projects
- Conduct engineering analyses related to waste settlement, slope stability, drainage, and environmental performance.
- Develop engineering solutions that optimize operational efficiency, extend facility life, and ensure compliance with environmental and safety standards.
- Provide technical guidance to operations staff, consultants, and contractors during design, permitting, and construction phases.

Regulatory Compliance & Reporting

- Interpret environmental permits and ensure all landfill operations comply with State and Federal regulations.
- Prepare engineering reports, permit applications, annual compliance submissions, and technical documentation required by regulatory agencies.
- Coordinate with regulatory bodies including MDEP, EPA, and Portland Water District on technical matters, inspections, and permit modifications.

Surveying & Data Analysis

- Calculate waste disposal volumes and densities using survey data collected by ecomaine staff.
- Perform or oversee surveying activities for ecomaine operations, environmental monitoring, capital projects, and site development.
- Prepare topographic survey drawings and earthwork calculations using Civil 3D

or similar software.

Environmental & Geotechnical Oversight

- Review and approve environmental and geotechnical monitoring reports.
- Support the design and implementation of landfill closure plans, including final cover systems and long-term monitoring programs.
- Evaluate environmental risks and recommend engineering controls to protect public health and the environment.

Operational & Organizational Support

- Prepare feasibility studies, engineering reports, and technical presentations for the COO, GM, and Board of Directors.
- Assist the Landfill Manager in updating the Landfill Operations Manual and other technical guidance documents.
- Provide engineering support to the Recycling and Waste-to-Energy (WTE) facilities, including design review, infrastructure planning, and technical troubleshooting.
- Provide engineering input for budgeting, capital planning, and long-term infrastructure development.
- Serve as acting Landfill Manager when required.
- Assist the Landfill Manager with interviewing, training, and developing landfill staff and consultants.

Skills, Experience, and Training

Required

- B.S. in Civil or Environmental Engineering.
- Maine P.E. license or ability to obtain through reciprocity.
- 5–10 years of engineering experience in solid waste, civil, or environmental projects.
- SWANA Landfill Manager certification or ability to obtain within one year.
- Strong knowledge of landfill engineering, solid waste disposal, earthwork, drainage, and utility design.
- Experience with land surveying using Total Station and GPS instruments.
- Proficiency in Civil 3D and Microsoft Office Suite.
- Working knowledge of Federal and State safety regulations.
- Excellent written, verbal, and interpersonal communication skills.
- Valid State of Maine driver's license and insurability under company policy.

Preferred

- Master's degree in environmental or geotechnical engineering.
- Experience with stormwater erosion control and Maine DEP rules and regulations.

Why Join ecomaine?

At ecomaine, you'll play a critical role in advancing sustainable waste management solutions while protecting the environment and public health. You'll work alongside a dedicated team committed to innovation, compliance, and community impact.

ecomaine is an Equal Opportunity Employer. We consider all qualified applicants without regard to race, color, religion, sex, sexual orientation, gender identity or expression, national origin, ancestry, age, disability, genetic information, veteran status, or any other status protected by law. We believe that diverse perspectives strengthen our organization and we welcome applicants who bring a variety of backgrounds, experiences, and skills.