



SENIOR PRODUCT ENGINEER POSITION

Aclarity is a venture capital backed water technology company that designs and deploys proprietary electrochemical water treatment products to destroy harmful contaminants and protect the environment and human health. Our goal is to be the most impactful water company by delivering sustainable, cost effective, and superior water treatment solutions to the world. We are a dynamic and growing startup that values inclusiveness, hard work, and fun.

At present, Aclarity is heavily involved with research identifying optimal treatment conditions for a number of organic and inorganic compounds including (but not limited to) poly- and perfluorinated alkyl substances (PFAS), ammonia, cyanide, and nitrate. We are examining these in several different water matrices including landfill leachate, industrial wastewaters, and potable water sources.

Aclarity has deployed numerous pilots and started up their first multi-reactor customer install in December 2021. We have begun expanding our product line from single anode-cathode pairs operating in batch mode to larger systems containing multiple electrode pairs and operating in different flow modes including single-pass and internal recirculation. We are also exploring different electrode material and configurations to optimize treatment of different contaminants.

Position Summary: The Senior Product Engineer will lead product development to treat various water and wastewater streams using electrochemical technology to optimize the treatment capabilities of products and participating in new product development projects from the planning through the design, scaling, specification, procurement, and construction phases. This person diagnoses failure points and permanently fixes them to deliver no-drama, zero-defect product behavior. Other responsibilities include the design of test control apparatus and equipment, evaluation of operational systems and recommendation of design modifications to eliminate causes of malfunctions or changes in system requirements. Directs and coordinates activities of the R&D group which include design, manufacture and test electronic, and failure analysis as required.

As a highly motivated individual with very good organization, technical, and communication skills, you will work with a team of professionals to deliver superior service. The "ideal" candidate will come from an engineering background and bring with them project management and technical expertise that can be built in as learning more about the company's core business.

Examples of Duties:

- Work collaboratively with the R&D team to innovate, develop, test, and analyze various electrochemical configurations from concept to manufacturing.
- Communicate frequently and effectively with the Director of R&D on a weekly basis by providing updates and progress during all phases of projects.
- Confer with management, production, test, purchasing and sales to discuss existing or potential engineering projects, production, and determine engineering feasibility, cost effectiveness and customer demand for new and existing products.
- Direct and modify QA/QC procedures and factory acceptance tests.
- Optimize product design and operational parameters including (but not limited to) applied current/voltage, flow rate, electrode materials and configuration, and others for efficacy, efficiency, and product-market fit.
- Direct and coordinate manufacturing support, documentation, and testing activities to ensure compliance with specifications, and customer requirements.
- Deliver next-level performance from the reactor, the system in which it operates, and its control systems
- Perform detailed calculations to compute and establish manufacturing specifications.
- Prepare and communicate specifications for purchase of materials and equipment/tooling when necessary.
- Examine, prepare, and verify technical drawings and specifications of electrical systems, to ensure that installation and operations conform to standards and customer requirements. May draft detailed multi-view drawings of assemblies and sub-assemblies.

- Analyze engineering sketches, specifications and related data and drawings to determine design factors.
- Modify design to correct operating deficiencies and/or reduce production issues.
- Confer with document originators to resolve discrepancies and compile required changes to work instructions/standards and other related documents.
- Design and plan the layout of electrical assemblies to customer requirements, communicating details with Manufacturing and Test.
- Direct field testing of products and systems on first run items and provide assistance to the field engineer to troubleshoot and solve issues with field installations.
- Contribute to product roadmap by integrating across technical disciplines, both within the team and available from outside experts
- Use available analytical equipment to measure target parameters and assess results.
- Analyze and interpret data to develop predictive mathematical models.
- Responsible for the preparation of estimates, cost reports, forecasts, schedules, account codes, budgets, and change orders.
- Coordinate quantity estimates by obtaining and analyzing data on unit labor costs and unit material costs to reduce costs and increase production.
- Responsible for the preparation of final project reports including obtaining historical data and information.
- Conduct a checks of all documents and reports, verifying accuracy of data, information, and calculations.
- Assist in preparing and maintaining the group policies, procedures, and manuals.
- Travel periodically for out of town stays to conferences, client meetings, and pilot testing/implementation.
- Understand and follow company employee handbook and mandated safety policies.

Supervision:

Perform various duties of a routine to complex nature following acceptable standards of quality and performance, requires independent judgment in determining methods of completion and carrying out assignments

Supervision received: Works under the direct supervision of the R&D Manager or their designee.

Supervision given: Provides direction and guidance to the other staff and external partners, assisting them in completing their assigned work.

Education, Training, and Experience:

Engineering degree (BEng, MEng or EE) or equivalent from a four-year college or technical school in engineering, manufacturing and/or quality assurance or related field. Masters in electro-mechanical is highly desired. At least 5 years related engineering experience with specific experience in electromechanical equipment manufacturing and design is required. Preferred knowledge of ISO standards and documentation. Experience in a manufacturing environment preferred. An equivalent of education and experience will be considered. Ability to read blueprints, schematics, assembly drawings and wire lists. Ability to use measuring devices such as calipers, micrometers and scales is required. Must possess independent problem-solving skills and ability to perform experimental work. We seek candidates with excellent communication skills, ability to multitask projects and collaborate effectively with other team members.

Physical Requirements:

Regularly required to walk, stand, sit, talk, and hear; operate objects, tools, or controls; pick up paper, files and other common office objects. Ability to view computer screens and work with details for extended periods of time. Work to be performed in a lab environment, therefore proper safety protocols must be followed.

Location:

This position is located in Worcester, MA. Applicant must be local or be willing to relocate.

To Apply:

Please send cover letter, resume, and list of references to info@aclaritywater.com for consideration to this position. This application will remain open until filled. For more information about the company visit us at www.aclaritywater.com

Aclarity, Inc. is an equal opportunity employer and gives consideration for employment to qualified applicants without regard to race, color, religion, creed, national origin or ancestry, ethnicity, sex (including pregnancy), gender identity or expression, sexual orientation, age, physical or mental disability, citizenship, past, current, or prospective service in the uniformed services, genetic information, or any other characteristic protected under applicable federal, state, or local law.