



Mechanical Engineer
Kailua-Kona, Hawai'i

About Us:

Nāmaka Algae is a Hawaii-based company focused on cutting edge innovation in algae technology. We are committed to developing technology that supports cost-effective algae production for aquaculture and animal feed ingredients, in Hawai'i and globally. We are driven by values of stewardship, integrity, innovation, excellence, reliability and compassion. We are looking for a passionate, team-oriented individual ready to innovate and build alongside us to join our world class team.

Position Summary:

We are seeking a versatile and motivated Mechanical Engineer with strong technical knowledge and hands-on prototyping experience to support our algae technology development. The ideal candidate is a generalist, and is equally comfortable in research, modeling, and moving innovations from lab to production. We will be innovating to improve algal system performance based on a data driven approach. Hands-on skills in prototyping and electronics required. We are a start up and need all hands-on deck in a lean working environment to accomplish great things!

Key Responsibilities:

- Apply principles of optics and light dynamics to design our first system prototype.
- Design, build, optimize and troubleshoot functional algal systems for
 - Light distribution
 - Gas exchange
 - Mixing
- Build cost consciousness
- Build test platforms for prototypes.
- Ability to fabricate prototype with a wide array of machines, with cost control as a paramount objective.
- Photobioreactor system design, including vessel, pumps, mixing, carbon dioxide and nutrient delivery, algae harvesting and processing
- Support integration of electronics and mechanical components in experimental platforms and algal systems.
- Plan, execute, and manage scientific experiments.
- Collect, manage, and analyze experimental data.
- Develop and apply computational growth simulations.
- System modeling and data analysis.
- Support patent-related activities; prior experience with patents is a plus.
- Familiarity with Microsoft Office software including Excel a plus.

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www.namaka-algae.com



Qualifications:

- Strong hands-on engineering and scientific background.
- B.S. in mechanical engineering or related field.
- Demonstrated experience designing a prototype and functional product, either individually or part of a team.
- Experience with CAD and design software.
- Experience with facility design software (Aspen, Superpro, etc.) a plus.
- Experience working within a project management structure with ability to complete tasks on a deadline.
- Experience developing Equipment lists, Process Flow Diagrams (PFDs) and Piping and Instrument Diagrams (P&IDs).
- Proficiency in modeling and data analysis tools.
- Experience in R&D environments and transitioning concepts to scalable production.
- Strong organizational skills, capable of working independently with minimal supervision.
- Design of manufacturing lines for technology developed a plus.
- Facility design, including equipment sizing, TEA, etc. a plus.
- Passionate about sustainability and contributing to the local HI economy.
- Team-oriented with a collaborative mindset.
- Detail-oriented and adaptable in a fast-paced R&D environment.
- Ability to transition from R&D to manufacturing as needed.
- Aligned with Namaka's core values and long-term vision.

Why Join Us?

Namaka Algae offers the opportunity to work on impactful technology in a mission-driven company. We foster an inclusive and supportive culture grounded in respect, creativity, and local community empowerment. We are an early-stage company with an ambitious technology development trajectory coupled with a rapid commercialization strategy.

What We Offer:

- Opportunity to make a positive impact on Hawaii's economy and the global environment.
- Collaborative, value-driven work environment.
- Professional growth and skill development.
- Competitive compensation and benefits, including company stock options.
- Opportunity to be part of an early start up as a core employee contributing to the company's trajectory, values and working closely with the company founders.

How to Apply:

If you are excited to join a team committed to innovation and excellence, please submit your resume and a brief cover letter outlining your experience and interest in Namaka Algae to Valerie Harmon, valerie@namaka-algae.com