

Mechanical Engineer – Product Development

Job Highlights

Clean Crop Technologies, Inc. ("Clean Crop") stops crop loss at the source, removing pathogens from seeds before they are planted, increasing yields, reducing in-field waste, and improving food safety. Clean Crop's Clean Current technology combines electricity and food-grade gases to create cold plasma, inactivating a broad spectrum of contaminants from seed surfaces in a dry, automated, and residue-free process.

We are seeking a hands-on mechanical engineer to join our growing Product Development team. Under the direction of the Director of Product Development, this individual will be a key contributor to the design, fabrication, and testing of critical subsystems driving the success of our prototype and production equipment builds. Beyond being a curious and hands-on mechanical engineer, the ideal candidate will also have experience with electrical, electro-mechanical, and/or control subsystems.

This is an exciting opportunity to come in on the ground floor of a rapidly-growing industry and to help innovate in a fast-paced, start-up environment. The right individual will thrive in a team environment that requires excellent communication and interpersonal skills, and must have a proven ability to exercise independent judgment and to manage multiple simultaneous priorities.

Job Location: Holyoke, MA

Position: Full-Time, salaried, exempt.

Benefits (if applicable): Health Insurance; Vision, Dental, Life; Optional 401K; 3 weeks PTO with additional time off based on tenure, 12 weeks of 100% paid parental leave, as well as professional development opportunities.

Supervisor: Director of Product Development

Role & Responsibilities:

- Collaborate other members of the Product Development team to design, machine, 3D print, and assemble key components for integration into prototype and production equipment.

- Assist in the assembly and commissioning of production equipment, from controls integration to process/facility layout, process debugging/improvement, and site acceptance testing.
- Lead the design and integration of critical subassemblies including material handling, thermal management, plasma treatment, and process control system.
- Manage mechanical aspects of internal and external builds. Support development of equipment BOMs and procurements, vendor relationships, and key deliverables.
- Assist in the development of technical documentation to support Operations and Business Development.
- Conduct independent research projects related to subassembly optimization and drive the origination of key product innovations.
- Conduct analytical, instrumented testing of prototypes and hardware.
- Design testing procedures to validate device functionality or process requirements.
- Able to generate creative solutions to the product development team.
- Support the continuous improvement, management, and safety of the workshop and fabrication space.
- Ensure all facilities meet company protocols for worker safety and quality control during prototype design and builds.

Qualifications:

- BS in Mechanical Engineering, Industrial Engineering, Mechatronics, Electrical Engineering, or Physics.
- Minimum 3-5 years experience; 5-7 years experience and project lead capabilities desired.
- Demonstrated fluency in CAD/CAM design software (Inventor, Fusion 360, or Solidworks preferred).
- Demonstrated aptitude in design, manufacturing, and testing of mechanical systems and strong problem-solving skills, and ability to design mechanical components that meet required specifications.
- Proficient in document, spreadsheet, and presentation applications (MS Office / Google Workspace), and demonstrated experience effectively communicating critical data to peers and leadership.
- Hard-working, goal-oriented, and proven ability to manage multiple tasks in a fast-paced work environment.



410 Dwight St.
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cleancroptech.com

- Supportive team player who is creative, curious, and possesses a problem-solving mindset.

Apply:

Email resumes to talent@cleancroptech.com
or via our website <https://cleancroptech.com/about/>

About Clean Crop Technologies, Inc.

Clean Crop Technologies ("Clean Crop") is based in Holyoke, Massachusetts, where they operate out of a 14,000 square foot purpose-built facility, including an R&D lab, in-house rapid prototyping machine shop, biological laboratory, and commercial treatment operations. Clean Crop's Clean Current technology uses electricity to fight food waste and food safety risk by removing contaminants from seeds and foods to increase crop yields, reduce food waste, and increase food safety.