

Senior 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 gasses 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 senior mechanical engineer to join our growing Product Development team. Under the direction of the Director of Product Development, this individual will be a leader 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.

Reports to: Director of Product Development

Role & Responsibilities:

- Serve as a mentor to junior members of the Product Development team to help inspire, teach, and grow younger talent.
- Take responsibility as lead engineer on Product Development projects to research, scale-up, and commercialize key technology initiatives.

- Coordinate the assembly and commissioning of production equipment, from controls integration to process/facility layout, process debugging/improvement, and site acceptance testing.
- Own 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. Lead development of equipment BOMs and procurements, vendor relationships, and be responsible for achievement of key deliverables.
- Coordinate the development of technical documentation to support Operations and Business Development departments.
- Lead independent research projects related to subassembly optimization and drive the origination of key product innovations.
- 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. MS preferred.
- Minimum 5-7 years experience, including demonstration of project lead capabilities and/or supervisory experience.
- Experience in Lean Manufacturing, Six Sigma, DFX, FMEA, and quality systems.
- Demonstrated leadership in the design, manufacturing, and testing of complex electro-mechanical systems.
- Demonstrated fluency in CAD/CAM software (Inventor, Fusion 360, or Solidworks preferred), translating complex designs to technical documentation for external engineering bid and build.
- Experience interfacing with engineering design and mechanical fabrication vendors.
- Excellent 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 from a variety of professional backgrounds.



410 Dwight St.
Holyoke, MA 01040
cleancroptech.com

- Hard-working, goal-oriented, and proven ability to manage multiple tasks in a fast-paced work environment.
- Inspiring team player who is creative, curious, and possesses a problem-solving mindset.

Apply:

Clean Crop Job Board: <https://job-boards.greenhouse.io/cleancroptech>

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.