

# **MECHANICAL ENGINEERING INTERNSHIP: GROW LIGHTING HARDWARE DESIGN**

at Plenty Unlimited, LLC

South San Francisco, CA  
Compton, CA

At Plenty, we're on a mission to give people in local communities everywhere access to the freshest, most amazing tasting produce possible and to do so in a way that's better for the planet.

Engineers at Plenty are genuinely revolutionizing the way humans grow food and we want your help! We are seeking a Mechanical Engineering intern to develop high volume grow lighting systems and intelligent devices to provide our plants with the optimal growing conditions to enhance flavor and nutrition. Our largest indoor vertical farm is under construction in Compton, California right now!

## **About the Role**

As a Mechanical Design Engineer at Plenty, you will be responsible for creating the equipment that will result in our produce looking and tasting better than anything that exists today. You will design and commission devices that are robust, efficient, and cost-effective. These systems will begin as prototypes and over time become products built in the hundreds or thousands. You will be a part of a passionate and dynamic team that is developing this new technology from the ground up and implementing it at scale.

As we are currently in the process of constructing our largest facility to date, this role will be involved in traveling to the facility in Compton, CA (near Los Angeles) to help commission our lighting systems and ensure they are working as intended.

We anticipate a 50/50 split of time during this internship for work in Compton and in South San Francisco, but are flexible to your wants and needs. Travel costs to Compton will be covered by Plenty.

We have openings for two roles with flexibility on the exact dates. We want to work with you!

1. September 2021 - December 2021
2. September 2021 - March 2022

## What You'll Do

- Travel to our Compton facility to assist with its construction and commissioning
- Design complex 3D parts and assemblies in CAD, including drawing creation and document control/release.
- Have product design responsibility for both future and existing lighting system designs (mechanical, thermal, and financial analysis included)
- Lead early process development, testing, and analysis to prove our systems will function as designed
- Perform root cause failure analysis of recently deployed field failures using our South San Francisco headquarters lab space
- Learn a lot about light, plants, and the amazing process of photosynthesis
- Collaborate with other teams inside Plenty (automation, plant science, supply chain, etc.) to optimize the system-level performance of our farms

## What We're Looking For

- Someone creative, self-motivated, curious, and hands-on
- Working towards BS or MS in Mechanical or Electromechanical Engineering or equivalent
- Strong engineering fundamentals with a desire to build and fix things
- Interest and ability to travel to Compton, CA to assist in the commissioning of our latest indoor farm
  - Will require light lifting, using ladders, and using measurement tools, etc

We do **NOT** require prior engineering work experience, just someone motivated to learn new skills and build new things. We are actively looking for people that are interested in getting exposure to working as an engineer in tech and agriculture. With that in mind, we are looking for people with an interest in and/or experience with:

- 3D CAD modeling (CATIA V5/V6 experience a plus but not mandatory. Solidworks also a plus, but not mandatory)
- Design with high volume manufacturing processes such as plastic injection molding, machining, extruding, welding/brazing, plating, and bonding.
- Design of high volume electronics and electrical assemblies
- Defining hardware test plans, designing test setups, and analyzing data to ensure products are well-designed and well-built