



Mechanical Engineer (Manufacturing)

Location: Demonstration Site, Hayes, London, UB3 3NW

The Company

3D Agriculture, a UK impact company founded in 2021, is combatting food insecurity and climate change through a rapid global rollout of thousands of vertical farms. 3D Agriculture develops and operates the most versatile, lowest cost vertical farms on the market. These grow both mushrooms and plants from the same platform, and an order of magnitude less per unit of production than the best vertical farms out there. 3D Agriculture has developed a farm that is deployable even in developing countries, where subpar logistics infrastructure creates high barriers to entry.

NOTE: If you don't match the qualifications, skills and experience, but want to help, we could offer you an internship related to this position! So please apply if this position interests you!

Responsibilities

- Build “the machine that builds the machine”
- Document manufacturing and assembly processes for components in our vertical farms
- Design and build test rigs for manufacturing processes to quickly bring concepts to life
- Supervise and oversee mass production and assembly of parts and equipment in our farms
- Recursively improve our vertical farming product based on design for manufacturing principles
- Drive development towards the world's most capable vertical farming manufacturing site
- Write and execute verification test plans/procedures/reports against product requirements
- Conduct trade studies, advise in the procurement of inventory, liaise with suppliers
- Codify best practice for health and safety of staff during manufacturing and assembly

Basic Qualifications

- Bachelor's Degree in Mechanical Engineering, Manufacturing Engineering, or any related field(s).
- 1+ years of experience with workstation-mounted manufacturing tools (drills, saws, mills)
- 1+ years of experience with manufacturing of plastics (PVC, Polypropylene, HDPE, PLA, ABS)

Preferred Skills and Experience

- Carpentry related hands on experience and awareness of best practices
- 1+ years managing and improving tooling and workshops
- 2+ Years of experience with CAD software such as SolidWorks or AutoDesk Fusion 360
- Be very hands on in projects (we want rapid prototyping and proof of concepts)
- Understanding of plant production systems in greenhouses and growth chambers
- Experience on any agriculture / agri-tech projects are a bonus
- Experience supporting a product from conception to production
- Self-motivated with strong multi-tasking, organizational, communication and documentation skills
- Strong sense of accountability and integrity with excellent written and verbal communication skills
- Ability to work in a fast paced, autonomously driven, and demanding atmosphere

Salary

- £2,000 – 2,500/month depending on skills and experience
- If applying for an internship, remuneration will be discussed following your interview

Perks

- Opportunities for very rapid career progression
- Ability to work up to 2 days per week from home (to be agreed upon after offer of employment)

Please either apply on the careers page of our website or at careers@3dagriculture.com directly