



## Mechanical Engineer (Fluids)

**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

- Design, build, test, and qualify the pumping and irrigation infrastructure and climate control systems
- Write fluid mechanics, thermodynamics reports to guide development for HVAC and fluid systems
- Bring concepts to life, build prototypes, lead full fluid systems product cycle to successful launch
- Design and build test rigs to troubleshoot critical subsystems of our incubator and growing towers
- Drive simplicity and maintainability in operation design of our farms
- Write and execute verification test plans/procedures/reports against product requirements
- Conduct trade studies, advise in the procurement of inventory, liaise with suppliers

### Basic Qualifications

- Bachelor's Degree in Mechanical/Automation Engineering or related field(s)
- 1+ years of experience with fluid systems (academic/hobby projects, internships, and traditional professional experience all qualify)

### Preferred Skills and Experience

- Theoretical and formal grasp of both compressible and non-compressible fluids
- 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](mailto:careers@3dagriculture.com) directly