



## Controls Engineer (IOT & Micro-controllers)

**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

- Develop industrial grade automation and IOT infrastructure and connect it to cloud computing
- Develop software and hardware for climate, nutrient, auxiliary systems control
- Develops plans to improve control hardware reliability and accuracy
- Conduct trade studies on climate, nutrient, quality control sensors, and advise procurement
- Write and execute verification test plans/procedures/reports against product requirements
- Plan and manage installation and repair of control hardware
- Conduct trade studies, advise in the procurement of inventory

### Basic Qualifications

- Bachelor's Degree in Robotics/Electrical Engineering, Computer Science, or any related field(s)
- 2+ years of experience in factory/warehouse automation, environmental testing, unit level testing (significant academic projects, internships, and traditional professional experience all qualify)
- 2+ years of experience working on IOT projects, using open sourced projects
- 2+ years of experience working with microcontroller/microcomputer hardware like Arduinos, Raspberry Pis, ESP32s, National Instruments MyRIO, and other related devices

### Preferred Skills and Experience

- Master's Degree in Robotics/Electrical Engineering, Computer Science, or any related field(s)
- 2+ Years of experience programming in C/C++
- 2+ Year of experience with LabView
- Experience with cloud computing relating to IOT (Azure, AWS etc.)
- Experience with PLC (Programmable Logic Controllers)
- Understanding of plant production systems in greenhouses and growth chambers
- 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

- £2,500 – 3,500/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