

**Job Title:** Principal Embedded Systems Engineer

**About us:**

DIT AgTech is at the forefront of innovation in livestock nutrition and agtech solutions. We specialise in delivering cutting-edge IoT-enabled dosing systems and methane-reducing supplements that help producers improve livestock health, productivity, and sustainability. As a fast-growing company with a strong customer-first culture, we are committed to providing solutions that make a real difference on-farm.

We're now looking for a Principal Engineering leader to drive design and delivery of our embedded hardware and firmware systems from concept through to production. The role will be based on-site at our Toowoomba/Gatton Production Facility, with expected travel between Australia and China to support hands-on implementation of our technology projects, assist with recruitment, and provide ongoing support and supervision of our team in China.

**The Opportunity:**

As our Principal Embedded Systems Engineer, you'll be responsible for leading the development of embedded hardware and firmware solutions, guiding the engineering team, and ensuring our products are reliable, scalable, and ready for real-world agricultural environments.

**What You'll Do:**

- Manage and lead a team of firmware engineers, setting clear objectives, fostering innovation, promoting collaborative and results-driven culture
- Review and provide guidance on schematics, PCB layouts, component selection, and system design for reliability, compliance, and cost optimization.
- Collaborate with product management on technical feasibility and design trade-offs.
- Support and lead root-cause analysis for hardware issues from initial prototypes through production.

**What You'll Bring:**

- 12+ years proven experience in hardware product design and development, with a strong track record of delivering production-grade hardware from concept through manufacturing.
- Solid understanding on embedded software development, microcontroller architectures, communication protocols, PCB design
- Strong project management skills, ability to manage multiple priorities and deliver projects
- Positive and can-do attitude with strong leadership capabilities
- Excellent communication and interpersonal skills, with experience in communicating technical details to non-technical stakeholders
- Experience using sleep and low power modes, interrupts, fuse bits, various communication protocols, on-chip and external peripherals, hardware timers, datasheets
- Experience with electronic circuits, ideally experience with Altium/Eagle/KiCAD/Similar
- Strong Experience working with various communication protocols such as SPI, I2C, RS485, MQTT

- Experience on CAD and PCB design softwares
- Soldering and SMD Hot Air Rework
- Experience with IoT, satellite and terrestrial telemetry
- Swarm/Myriota/Astrocast/similar, NB-IoT/3G/4G communication, LoRaWAN
- Secure communication, bandwidth constraints, efficient message structures

**Qualifications and Licences:**

- Bachelor's or Master's degree in Electronics/Electrical engineering, Computer science or related field

**Why Join DIT AgTech:**

At DIT AgTech, we offer a dynamic and supportive work environment, competitive salary and sponsorship opportunities. You'll have the opportunity to make a meaningful impact in the world by contributing to the advancement of sustainable agriculture and climate solutions.

**How to Apply:**

Send a resume and cover letter to [ally@ditagtech.com.au](mailto:ally@ditagtech.com.au) or call Ally for a confidential discussion on 0428 754 373.