



**Job description:** At UniSCool, we are seeking a highly skilled and motivated *Electronics, Firmware & Monitoring Engineer* to join our operations and product development team. The ideal candidate will have experience in electronics, embedded systems, firmware development, sensor integration and data monitoring. This is not a pure R&D software role. It is an operations-enabling engineering role, focused on firmware, control, telemetry and data collection needed to deploy, monitor and validate UniSCool's cooling solutions in real environments.

**Job title:** Electronics & Firmware Engineer

**Responsibilities:**

- Define firmware requirements for in-server and in-rack pilot deployments.
- Develop, adapt and test firmware for sensors, monitoring and basic control functions.
- Integrate temperature, pressure, flow and leak sensors into UniSCool's cooling solutions.
- Design and implement data acquisition, logging and communication systems.
- Build basic dashboards, reporting tools or monitoring interfaces for pilot performance.
- Support commissioning, troubleshooting and field validation during pilot deployments.
- Ensure operational data from pilots is collected, structured, traceable and usable.
- Support the definition of sensor architecture, wiring, connectors, power supplies and signal conditioning.
- Diagnose and troubleshoot issues related to sensors, electronics, firmware, data logging and communications.
- Interface with R&D/control development when adaptive systems are involved.
- Support future adaptive cold plate integration from the electronics and control side.
- Document firmware requirements, test procedures, monitoring architecture and results.

**Job location:** Lleida, Catalonia, Spain

**Work schedule:** full time, 40 hours/week, flexible schedule.

**Job Requirements:**

- Degree or master's degree in Electronics Engineering, Control Engineering, Telecommunications, or a related field.
- Experience in firmware development for microcontrollers (Arduino, ESP32, STM32 or equivalent).
- Experience integrating sensors and instrumentation systems.
- Experience in the design and development of electronic control systems.
- Experience with electronic design and KiCad, Altium or EasyEDA.
- Knowledge of temperature, pressure, flow and leak detection sensors.
- Knowledge of communication protocols such as serial, I2C, SPI, CAN, Modbus, MQTT or similar.
- Experience with data acquisition, data logging and monitoring systems.
- Python for data processing, automation and monitoring scripts.



[www.uniscool.tech](http://www.uniscool.tech)

[UniSCool](#)

- Ability to work with wiring, connectors, power supplies and signal conditioning.
- Experience with electronics laboratory equipment and hardware debugging.
- Knowledge of dashboards or monitoring tools such as Grafana, Node-RED or similar will be highly valued.
- Knowledge of pumps, valves, thermal control, liquid cooling or industrial monitoring will be highly valued.
- Knowledge of data center telemetry or server hardware will be valued.
- Fluent English.

**Skills:**

- Hands-on electronics and firmware troubleshooting skills.
- Practical mindset and ability to work with physical hardware.
- Strong problem-solving and debugging skills.
- Ability to move from firmware to sensors, wiring, data acquisition and field deployment.
- Structured approach to data collection, traceability and documentation.
- Good communication skills.
- Result-oriented mindset.
- Ability to work in a small, multidisciplinary and fast-moving team.

If you meet these qualifications and are excited about the opportunity to work on innovative thermal management solutions in a dynamic small company environment, we would like to hear from you.

Please send your CV to [montse.vilarrubi@uniscool.tech](mailto:montse.vilarrubi@uniscool.tech)



[www.uniscool.tech](http://www.uniscool.tech)

[UniSCool](#)