Role: Building Controls Integration Engineer (HVAC/BMS)
Location: London / Hybrid / Remote
Contract Type: Fixed-term
Start Date: By agreement (immediate start preferred)
Duration: One year, renewal subject to performance
Years of Experience Required: 3+
Reporting To: CTO
Salary Range: £50,000–£70,000, subject to experience and options

Cosysense:
Cosysense cuts electricity costs and carbon emissions in commercial buildings by delivering optimised comfort through patented climate control powered by AI agents, digital twins, and sensors for heating, ventilation, and air conditioning. We are a fast-growing Cambridge University spinout backed by top UK and European investors.

Role Overview:
Own end-to-end integration between Cosysense's AI control platform and legacy/modern HVAC and BMS systems, delivering safe, real-time, portfolio-scale automation through robust connectivity, commissioning, and control governance. Build the field-to-cloud data and command pathways, enforce bounded autonomy and safety, and accelerate repeatable deployments.

Key Responsibilities:
- Integrate Cosysense control algorithm across BACnet/IP, Modbus(TCP/RTU), and vendor BMS to onboard sites, map and normalize points, and establish secure bidirectional control.
- Collaborate with the Energy Lead to implement fault detection, diagnostics, and predictive maintenance logic; triage issues and convert fixes into standard playbooks.
- Create reusable site templates, tagging conventions, and automapping workflows to reduce time-to-commission and improve consistency.
- Digital Twin Implementation: Co-lead the development of HVAC digital twins for diagnostics (system maintenance/degradation detection) and automation identifying equipment-level constraints and safe setpoint trajectories
- Field Deployment Support: Ensure control systems perform robustly in diverse pilot sites.
- Familiarity with Project Haystack/Brick schemas and metadata normalisation.

Experience required:
- 5+ years experience with Linux-based systems, network fundamentals (VLANs, VPNs, TLS), and serial interfaces (RS-485/RS-232); scripting in Python for tooling and test harnesses.
- Strong understanding of building physics, HVAC control logic, sequences of operation, and energy/comfort trade-offs; exposure to boilers/chillers, AHUs, VAVs, heat pumps, and ventilation strategies. Familiarity with HVAC logic and energy efficiency constraints
- Proficiency with BACnet and at least one of Modbus or LonWorks; familiarity with BMS architectures, tagging/semantics, and point normalization.
- Hands-on deploying systems in real building environments
- Troubleshooting live deployments in real-world settings

Why Join Us
Shape the next generation of sustainable building automation. You'll work at the intersection of energy systems, AI, and field performance — turning real-world building data into actionable carbon savings.

Diversity & Inclusion
Cosysense welcomes diverse experiences and perspectives. We are committed to equal opportunities and inclusive hiring. We believe diverse perspectives strengthen innovation and sustainability.

Apply here: https://forms.gle/8EeP1G6o3yR9Luvj9