



Hardware Engineer • Location: Malvern, PA (On-Site)

Rajant Health Incorporated (RHI) is building a healthcare assurance ecosystem to enable proactive and personalized health. We provide personalized health insights that improve diagnostics, therapeutics, communication, and the overall patient experience.

Our monitoring solutions, data integration, and advanced analytics transform raw data into actionable insights for clinical, biomedical, and research applications. Our portfolio includes **Cowbell®**, **Q-Stat®**, and **Trovomics®**—innovative technologies supporting large animal monitoring, remote health management, biomarker identification, and next-generation health discovery.

Based in Malvern, Pennsylvania, RHI develops intelligent healthcare technologies that make complex health data understandable and actionable for researchers, healthcare providers, and individuals. Backed by our parent company, **Rajant Corporation**, with more than 25 years of innovation in intelligent edge networking and mission-critical connectivity, RHI is advancing the future of connected healthcare through AI, edge computing, and real-time health intelligence. For more information, visit **RajantHealth.com** or follow Rajant Health on LinkedIn and YouTube.

POSITION OVERVIEW: Rajant Health Incorporated is seeking a **Hardware Engineer** to design, develop, and support connected devices ranging from battery-powered wearables to industrial IoT gateways. You will work on end-to-end hardware development, balancing power efficiency, reliability, performance, and cost, while collaborating closely with firmware, cloud, and mechanical teams to deliver production-ready IoT products.

KEY RESPONSIBILITIES:

- Design and develop IoT hardware for battery-powered wearables and industrial gateways
- Architect MCU- and SoC-based systems integrating sensors, wireless connectivity, and peripherals
- Create schematics and PCB layouts for compact, low-power wearable devices and robust industrial platforms
- Prototype, bring up, test, and debug hardware at board and system level
- Design and optimize power management systems (battery selection, charging, protection, regulators, sleep states)
- Integrate and support wireless technologies such as BLE, Wi-Fi, LTE-M, NB-IoT, and LoRa
- Consider RF, antenna placement, and signal integrity in both wearable and industrial form factors
- Support DFM, DFT, reliability, and regulatory certification (FCC, CE, PTCRB, UL as applicable)
- Collaborate cross-functionally with firmware, cloud, mechanical, and manufacturing teams
- Support pilot builds, production ramp, and ongoing manufacturing issues
- Investigate and resolve field failures and reliability issues
- Document hardware designs, validation plans, and test results

REQUIRED QUALIFICATIONS:

- Bachelor's degree in Electrical Engineering, Computer Engineering, or related field
- 3–6 years of professional hardware engineering experience
- Strong foundation in analog, digital, and mixed-signal design
- Hands-on experience with IoT devices, wearables, or industrial embedded systems
- Experience designing battery-powered products and/or always-on industrial systems
- Proficiency with PCB schematic capture and layout tools
- Strong lab skills (oscilloscope, logic analyzer, spectrum analyzer, multimeter)
- Ability to debug power, RF, and system-level issues

PREFERRED QUALIFICATIONS:

- Experience with ultra-low-power wearable designs (sleep modes, power profiling)
- Experience with industrial gateways (multiple radios, Ethernet, RS-485, CAN, USB)
- Familiarity with thermal, EMI/EMC, and ruggedized enclosure constraints
- Understanding of secure hardware design (secure boot, TPM/SE, key storage)
- Experience supporting products through certification and mass production
- Exposure to medical, industrial, or regulated environments

SOFT SKILLS:

- Strong ownership and accountability for hardware designs
- Comfortable working across disciplines and product lifecycles
- Clear communicator with strong documentation habits
- Ability to make pragmatic tradeoffs between power, cost, and performance

WHY JOIN RAJANT HEALTH:

- Help build innovative healthcare technologies that improve diagnostics, therapeutics, and patient outcomes.
- Work with a collaborative team of engineers, scientists, and healthcare innovators solving complex technical challenges.
- Contribute to AI, edge computing, cloud, and connected health solutions that make a real-world impact.
- Grow your career in a fast-moving organization backed by Rajant Corporation's engineering expertise.
- Make a meaningful contribution to the future of personalized and connected healthcare.

READY TO BUILD WHAT'S NEXT?

If you're ready to help build healthcare technologies that improve lives and solve complex engineering challenges, we'd love to hear from you. Apply Today.

Employment Type: Full-Time with benefits.

Location: Malvern, PA. On-Site.

Apply: Please send cover letter and resume to jointheteam@rajant.com.

Rajant Corporation is an Equal Opportunity Employer and does not discriminate on the basis of race, color, religion, gender, national origin, age, physical or mental impairment, sexual orientation or any other category protected under federal, state or local law. Rajant is a USG Contractor and complies with all US laws, regulations and Executive Orders.