



The Philadelphia Inquirer
Rajant Corporation is a 2024 Top
Workplace!
4 Years Running



Hardware Engineer – Malvern, PA. On-Site.

Rajant Health Incorporated is looking for a **Hardware Engineer**. Rajant Health Incorporated (RHI) is building a healthcare assurance ecosystem to enable proactive and personalized health. We provide personalized health insights to promote a patient-centered experience that improves diagnostics, therapeutics, and communication.

Revolutionizing health discovery on a global scale is RHI's mission. RHI is backed by our parent company, Rajant Corporation (Malvern, PA), with 20+ years of technological experience. For more info, visit RajantHealth.com or follow Rajant Health on LinkedIn and YouTube. Join our team to become a part of this exciting step forward in healthcare!

Position Overview: We are 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 (Nice to Have)

- 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

- 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.

Employment Type: Regular, Full-Time. Salaried with full 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.