



Rajant Health Incorporated is looking for a **PCB Design 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 highly skilled and experienced **PCB Design Engineer** to join our hardware engineering team in Malvern, PA. The ideal candidate will have **5 to 10 years of hands-on experience in RF, high-speed, and mixed-signal PCB design**, with a strong understanding of signal integrity, controlled impedance, and design for manufacturability (DFM). You will play a critical role in designing complex multilayer PCBs used in cutting-edge products, collaborating closely with cross-functional teams including electrical, mechanical, and manufacturing engineers.

Key Responsibilities:

- Design & develop RF, analog, & high-speed digital PCBs using industry-standard EDA tools (e.g., Altium Designer, Cadence Allegro, Mentor Graphics).
- Work with electrical engineers to translate schematics into optimized PCB layouts, with emphasis on high density, RF performance and signal integrity.
- Perform advanced component placement, controlled impedance routing, and high-frequency design practices.
- Conduct thorough DRC/ERC checks and resolve layout and signal quality issues.
- Ensure compliance with EMI/EMC standards and best practices.
- Generate complete fabrication and assembly documentation (Gerbers, BOMs, pick-and-place files, etc.).
- Support prototyping, bring-up, debugging of RF boards using lab test equipment such as VNAs, spectrum analyzers, & oscilloscopes.
- Collaborate with suppliers and contract manufacturers during fabrication and production.
- Participate in design reviews and RF performance validation.
- Maintain PCB libraries and ensure RF component models and footprints are accurate.
- Contribute to improving design workflows and integrating best practices for RF and mixed-signal PCB design.

Required Qualifications:

- Bachelor's or Master's degree in Electrical Engineering, Electronics Engineering, or related field.
- 5–10 years of experience in PCB layout and design, including RF and high-frequency circuits.
- Proficiency in PCB CAD tools such as Altium Designer, Cadence Allegro, or OrCAD.
- Strong understanding of RF PCB layout techniques, including controlled impedance routing, via management, ground plane strategies, and isolation techniques.
- Experience with DFM/DFT, and knowledge of industry standards such as IPC-2221 and IPC-A-600.
- Excellent problem-solving and analytical skills.
- Strong verbal and written communication skills.
- Ability to work independently and within cross-functional teams.

Preferred Qualifications:

- Experience designing RF/microwave PCBs in the 2.4 GHz to 30+ GHz range.
- Experience with rigid-flex PCB design and high-density interconnects (HDI).
- Background in consumer electronics, aerospace/defense, telecom, or IoT products.
- Familiarity with MCAD/ECAD integration and mechanical constraints.
- Familiarity with regulatory compliance (FCC, CE) related to RF design.

Employment Type: Regular, Full-Time. **Location:** Malvern, PA. On-Site. **Apply:** Please send cover letter and resume to jointheteam@rajant.com.

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