

RF / Analog Design Engineer

Location: San Diego CA, United States

Company Description

RAM Photonics has its headquarters in San Diego CA, with facilities in San Diego and Rochester NY. The company includes specialty optical and optoelectronic systems for defense, commercial, and industrial applications, including advanced signal processing and instrumentation systems. RAM Photonics seeks capable, creative, and driven contributors skilled at communicating and performing within a technical team composed of leading photonics, electronics, and software engineers.

Job Description

The RF / Analog Design Engineer will be responsible for development of and will contribute to the commercialization of a new class of processing technology for advanced microwave/photonic system. The candidate is expected to: contribute to overall system specifications; design, acquire, and test custom boards for hybrid photonic/electronic signal processing systems; and work with suppliers and manufacturers to design for manufacturability and take company product to production. The exact title and level assigned to the position will depend on the candidate's experience and capability.

Experience Requirements:

- B.S., M.S., or Ph.D. in Electrical Engineering or related field.
- At least 3 years of experience in RF / analog and mixed signal circuit design.
- Track record of designing and producing complex circuits with extensive experience in PCB board level design.
- Relevant experience in system architecture, including broad technical knowledge in optics, opto-electronics, fiber optics, and microwave photonics hardware development.
- Experience in high-speed (GHz) circuit design, including transimpedance amplifiers (TIA), automatic gain control (AGC), and ADC front-ends.
- Experience in high-speed signal test and measurement techniques.
- Experience in schematic capture tools, version control, cultivating part databases, etc.
- Experience with digital signal processing.
- Structured modeling and hands-on capabilities in circuit design and development.
- Comfortable in the lab soldering and reworking boards as needed.
- A self-starter and team player with excellent communication skills.

Desired Skills:

- Modeling and simulation experience in MATLAB, python, or similar software.
- Familiar with at least one board-layout package, preferably Autodesk Eagle.

Qualified applicants should submit resumes with a cover letter to: employment@ramphotonics.com