

# RF Hardware Design Engineers - Mid and Senior Level

U.S. Citizenship Required

Charon Technologies, LLC specializes in designing and building hardware and software to meet our customers' next requirement. We focus on offering devices that can be fielded immediately to meet the mission needs that lie directly ahead. Size, weight, power, and packaging are of paramount importance in everything we design and build. Our expertise allows us to rapidly provide these solutions in specialized electronic/mechanical design, embedded & application-level software, reverse engineering & protocol analysis, and RF signals and communications systems. U.S. Citizenship required. Successful candidates must be willing and able to obtain a security clearance and pass a pre-employment drug screen.

**We are seeking mid and senior level RF Hardware Design Engineers** with expertise digital hardware design and PC board layout. Engineers will develop hardware devices and platforms for embedded RF products as part of a cross-functional multi-disciplinary engineering team.

This role requires the ability to effectively collaborate with a cross functional design team. Candidates must possess solid interpersonal as well as excellent oral and written communication skills.

## **Ideal Candidates will be proficient with:**

- Cascade analysis
  - Noise Figure
  - Minimum Discernable Signal
  - Dynamic Range
  - Saturation (P1dB and IP3)
- Receiver design including
  - Low Noise Amplifiers (LNA)
  - RF Filtering
  - Mixers
  - A/D converter integration
- Transmitter design including
  - Up-converter Mixers
  - Power Amplifiers
  - Linearity Analysis (ACPR, etc)
  - D/A Converter Integration
- Antenna theory and design
- RF impedance matching
- Lumped element filter design
- RF Link budget analysis
- Mixed signal design integrating radio hardware with a DSP or microprocessor



- Power supply design
- Thermal analysis
- Schematic entry, PCB layout, BOM generation
- Able to work at the bench with standard RF test equipment

### **Preferred skills will include**

- Design for Manufacturing / Production
- Experience in supporting mechanical packaging and enclosure design
- Experience with Altium tools
- Experience with EMPro

### **Qualifications**

- 5 years+ experience designing RF solutions (Junior level)
- 10 years+ experience designing RF solutions (Senior level)
- BS Electrical Engineering or similar field, Master degree preferred

### **Benefits**

We work in a unique environment that's employee and family-friendly. Our employees enjoy:

- Generous salary, holidays, vacation and sick leave;
- The best PC or MAC – your choice – with at least two large monitors;
- Highly subsidized health, dental plans and life insurance;
- Sponsorship of running and cycling clubs;
- 401k plan w/company match that vests immediately;
- Private or semi-private window offices;
- Tuition/educational assistance program;
- Casual dress and flexible schedule;
- Free snacks, Starbucks coffee, and other beverages;
- Free lunch or breakfast weekly, summer family picnic, and winter holiday party;
- Convenient location in Herndon - bike or walk to work with showers in the facility.

We are proud to be an Equal Opportunity Employer and do not discriminate on the basis of race, religion, gender, national origin, color, age, military service eligibility or veteran status, disability, sexual orientation, gender identity, marital status or any other protected class. We encourage and support workplace diversity.

**Qualified candidates may submit resumes to [hr@charontech.com](mailto:hr@charontech.com) in Microsoft Word or Adobe PDF format. Charon Technologies, LLC is an Equal Opportunity Employer M/F/D/V.**

**No third parties, no agencies, no subcontractors need apply.**

