

Falcomm was founded with a mission to bring semiconductor innovation to the real world. Today, Falcomm is actively developing new semiconductor technologies to provide the most energy efficient power amplifier products in the world.

Silicon Based Power Amplifier Designer

RESPONSIBILITIES:

- Simulate and model RFIC systems at high level and work with system architects
- Derive specifications for the RFIC subsystems and circuits
- Develop RF/microwave circuits in state-of-the-art SiGe, CMOS, and SOI processes from GlobalFoundries
- Perform IC floor planning and layout
- Model package and external parasitic components
- Evaluate and characterize prototypes of the design
- Characterize and analyze full radio performance
- Assist in the development of automated test lab equipment for lab measurements
- Work with manufacturing engineers on production testing and qualification of the RFIC components and systems

BASIC QUALIFICATIONS:

- Master's degree in electrical engineering or computer engineering
- Passionate about RF/microwave integrated circuits
- Excited about innovation
- Desire to learn

PREFERRED SKILLS AND EXPERIENCE:

- PhD/Master/bachelor's in electrical engineering with an emphasis in RF/microwave integrated circuits design
- Experience using simulation tools such as Keysight PathWave Designs Suite (ADS, SystemVue, GoldenGate, Momentum), Spectre, HFSS
- Strong circuit design skills, and experience performing analysis and simulation of both linear and non-linear circuits for power amplifiers and other related RF circuit blocks
- Knowledge of digital communication systems, spread spectrum, single and multi-carrier techniques and modulation types such as QPSK, APSK and QAM
- Knowledge of RF transceiver architectures
- RF/microwave design in the GSM band, Ku-band, K-band and Ka-band frequency range
- Familiarity with radio related test equipment such as spectrum analyzers, vector signal analyzers, vector signal generator, network analyzers
- Experience characterizing radio performance in microwave frequencies

REQUIREMENTS:

- You must be a U.S. citizen, lawful permanent resident of the U.S., or eligible to obtain the required work authorization authorizations.

- Falcomm is an Equal Opportunity Employer; employment with Falcomm is governed on the basis of merit, competence and qualifications and will not be influenced in any manner by race, color, religion, gender, national origin/ethnicity, veteran status, disability status, age, sexual orientation, gender identity, marital status, mental or physical disability or any other legally protected status.
- Applicants wishing to view a copy of Falcomm's Affirmative Action Plan for veterans and individuals with disabilities, or applicants requiring reasonable accommodation to the application/interview process should notify Falcomm.

LOCATION:

- On-site preferred but not required - Atlanta, GA.