RF DESIGN VALIDATION ENGINEER

**Posting ID:** EM20307555  
**Company:** Skyworks  
**Position Type:** Full-Time  
**College Major(s):** Electrical/Computer Engineering (EE/CpE)  
**College Level(s):** Undergraduate-Senior, Graduate Student, PhD. Student, Alumni

**Company Website:** [https://www.skyworksinc.com/](https://www.skyworksinc.com/)

**Work Location:** San Jose, CA

**Salary:**

### OVERVIEW

If you are looking for a challenging and exciting career in the world of technology, then look no further. Skyworks is an innovator of high performance analog semiconductors whose solutions are powering the wireless networking revolution. At Skyworks, you will find a fast-paced environment with a strong focus on global collaboration, minimal layers of management and the freedom to make meaningful contributions in a setting that encourages creativity and out-of-the-box thinking. Our work culture values diversity, social responsibility, open communication, mutual trust and respect. We are excited about the opportunity to work with you and glad you want to be part of a team of talented individuals who together can change the way the world communicates.

Requisition ID: 58248

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### Roles and Responsibilities

Responsibilities include design validation activities, RF product testing, characterization and driving production readiness of high-performance FEM products. Products include PAs, PAMs, RF switches, RF duplexers typically used in the fast-paced and high volume cellular market. The candidate will play a critical role in product realization, he/she will be working closely with the design team conducting comprehensive testing and data collection, data preparation, and presentation in an R&D environment.
In this role, the candidate will decipher and convert the customer's specification into a workable test solution. The candidate will participate in creating automated and manual test plans, perform hands-on device measurements, characterization and optimization. The candidate will then analyze data and present data review which will serve as guidance for design improvements and variants down selection.

Typical RF measurements include but not limited to the following:

GSM/EDGE/WCDMA/TD-SCDMA/TD-LTE/FDD-LTE cellular PA characterizations
RF Switches characterization: Linearity, Harmonics, and Loadpull
RF Duplexers Evaluation
Digital Predistortion
Pvt, switching transient, multi-slots
Load pull and source pull
Stability
Noise
S-parameters
Small signal gain and conversion gain
Sensitivity analysis and DoE
MIPI interface programming and validation
Validation of the analog controller
ESD and ruggedness
PA with Envelope Tracking is a plus

Education and Qualifications

Education/Experience Requirements:
Master of Science degree in Electrical Engineering or closely related field of study. In lieu of MS, Employer will accept a Bachelor of Science degree in Electrical Engineering or a closely related field of study plus 2 years of experience in the job offered or closely related occupation.

Specific Skills Requirements:

A strong understanding of RF fundamentals, PA fundamentals, 2G/2.5G/3G/4G system, industry-standard test methods, test equipment operation, capabilities, limitations, trouble-shooting, and automation are critical for success. Strong expertise in using RF instruments including signal generators, PSA, VNA, oscilloscope, power meters, and load-pull tuners. Experience in test routine software development using C++/C, Labview or similar scripting language is essential. Strong attention to detail, meticulous documentation standards, strong written and verbal
communication skills, and the ability to work within a diverse team-structured environment is mandatory.
Strong expertise in using RF instruments including signal generators, Spectrum analyzers, VNA, oscilloscope, power meters, and load-pull tuners.

Preferred Skills
Experience in test routine software development using C++/C, Labview or similar scripting language is a strong plus

How to Apply