



## Principal Engineer, Analog & Mixed Signal Design

### Job description

In your new role you will:

- MS or PhD in Electrical Engineering or related field and minimum of 5 years of analog/mixed-signal design. RH IC design experience is a plus
- Attention to detail during all aspects of architecture definition, circuit design, debug and documentation
- Exceptional interpersonal, time management and communication skills
- Design experience with Power Management ICs and LDMOS/BCD process technologies and PDKs
- Proficiency with the complete suite of Cadence tools for mixed signal design

### Profile

You are best equipped for this task if you have:

- Perform all aspects of analog/mixed signal IC design from definition to production. Potential areas of design include precision analog & I/O blocks, A/D & D/A converters, PLLs, as well as higher voltage integrated drivers, switching FETs, and sense & protection circuitry
- Complete schematic capture, circuit analysis and simulations utilizing full Cadence design flow
- Guide physical designers on critical aspects of analog layout and perform post layout parasitic extraction & circuit verification
- Document and review critical aspects of the design architecture, implementation, and testing and conduct milestone reviews with management throughout the design cycle  
Perform silicon bench evaluation, guide technicians for full characterization, and work closely with the FA team for physical de-bugging
- Work cooperatively with Qualification team for reliability testing of the product  
Work cooperatively with test engineering to ensure testability and low PPM during production
- Oversee block level behavioral modeling for chip top level verification

Infineon **Power & Sensor Systems (PSS)** semiconductors play a vital role in enabling intelligent power management, smart sensitivity as well as fast and reliable data processing in an increasingly digitalized world.

Our leading-edge power devices make chargers, adapters, power tools and lighting systems smarter, smaller, lighter and more energy-efficient. Our trusted sensors increase the context sensitivity of “things” and systems such as HMI, and

### At a glance

Location: **Andover, MA (United States)**  
Job ID: **350370**  
Start date: **as soon as possible**  
Entry level: **5+ years**  
Type: **Full time**  
Contract: **Permanent**

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Job ID: **350370**  
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our RF chips power fast and reliable data communication.

– We drive leading-edge power management, sensing and data transfer capabilities –

[Click here](#) for more information about working at PSS with interesting employee and management insights and an overview with more #PSSDreamJobs.

## Why Us

**Part of your life. Part of tomorrow.**

Infineon is a world leader in semiconductor solutions that make life easier, safer, and greener. Our solutions for efficient energy management, smart mobility, and secure, seamless communications link the real and the digital world.

*Infineon Technologies Americas Corp. is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex (including pregnancy, childbirth, or related medical conditions), gender identity, national origin, ancestry, citizenship, age, physical or mental disability, legally protected medical condition, family care status, military or veteran status, marital status, domestic partner status, sexual orientation, or any other basis protected by local, state, or federal laws. Applicants with questions about access or requiring a reasonable accommodation for any part of the application or hiring process should contact the Talent Network by phone at (408) 503-2194.*

Employment at Infineon is contingent upon proof of your legal right to work in the United States under applicable law, verification of satisfactory references and successful completion of a background check and drug test, and signing all your on-boarding documents .

In some instances, if applicable, U.S. export control laws require that Infineon obtain a U.S. government export license prior to releasing technologies to certain persons. This offer is contingent upon Infineon's ability to satisfy these export control laws as related to your employment and anticipated job activities. The decision whether or not to submit and/or pursue an export license to satisfy this contingency, if applicable, shall be at Infineon's sole discretion.

### **IMPORTANT NOTICE:**

**Infineon is requiring all new U.S. employees and contractors to be fully vaccinated against COVID-19. Full vaccination is defined as two weeks after both doses of a two-dose vaccine or two weeks since a single-dose vaccine has been administered. Anyone unable to be vaccinated, either because of a sincerely held religious belief or a medical condition or disability that prevents them from being vaccinated, can request a reasonable accommodation.**

Infineon Technologies takes data privacy and identity theft very seriously. As such, we do not request personally-identifiable information (PII) from applicants over the internet or electronically. Please kindly refrain from disclosing your PII electronically during the application process or to unauthorized websites that may purport to be Infineon or any of our affiliates.

