



Principal Engineer Process Development

Job description

We are currently seeking talented Principal Engineers Process Development who want to join a dynamic and experienced team and take their technical knowledge to the next level in our mission of excellence.

In your new role you will:

- Be responsible for owning and driving development of floating gate flash fab technology processes to meet geometric and electrical design rule targets and tolerances, margins for manufacturability, product quality, reliability, and product data sheet requirements. Will also define and drive process dimensional specification requirements to meet these objectives.
- Be responsible for defining and validating test chip and scribe line (PCM) structures to monitor and verify process targets, tolerances, performance, and in-line metrology, without inducing systematic defectivity of those structures.
- Be expected to independently define, justify, prioritize and lead development and improvement projects for integrated process modules owned, including driving experiments, characterization, physical analysis, and problem solving.
- Be responsible for disciplined use of Six Sigma techniques and structured problem solving in above activities.

Profile

You are best equipped for this task if you have:

- Extensive semiconductor process engineering knowledge and experience; floating gate technology experience is a plus.
- Working knowledge of parametric test structures and testing methodology.
- Deep understanding of electrical sensitivities to process variations and Design of Experiments (DOE) methodology and analysis.
- Good expertise in analytical and datamining statistical methods and tools, and physical analysis (e.g. TEM, SIMS, SEM, EDX, etc.)
- Demonstrated ability to lead cross-functional teams, using DMAIC problem solving.
- Large project management experience and six sigma black belt certification preferred.
- Expertise in using CAD and TCAD simulation preferred.
- BS (MS/PhD referred) in relevant technical field such physics, material science, electrical engineering, chemical engineering with minimum of seven years semiconductor experience.

At a glance

Location:

Job ID: **349347**

Start date: **Aug 22, 2022**

Entry level: **5+ years**

Type: **Full time**

Contract: **Permanent**

Apply to this position online by following the URL and entering the Job ID in our job search:

Job ID: **349347**

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Automotive (ATV) shapes the future of mobility with microelectronics enabling clean, safe, and smart cars –

Our semiconductors are essential for supporting the automotive megatrends: electromobility, automated driving, connectivity, and advanced security. They link the real and the digital world, driving the ever-advancing pace of automotive digitalization. Infineon ATV is the number one semiconductor partner in the fast-changing automotive world, based on our system knowledge and our passion for innovation and quality.

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

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 Memory Solutions 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 onboarding 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.

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