



Principal Device Engineer

Job description

In this role, you will be part of Infineon Technologies Memory Solutions in San Jose, CA and will be developing a new and exciting, cutting-edge memory technology for Artificial Intelligence (AI) products, specifically inference accelerators for the edge using In-Memory-Computing (IMC) techniques.

In your new role, you will:

- Characterize mini-arrays (test-keys) as well as products arrays
- Characterization work includes device characteristics, endurance, retention, IDS-sigma, RTN and across-temperature behavior
- Work with process integration in optimizing the flash memory cell by participating in technology experiment design and evaluation
- Work with analog and digital design engineers to co-optimize design and technology to meet the various product requirements
- Work with the cross-functional team to develop flash memory algorithms to meet or exceed product targets including neural network accuracy, performance, power etc.
- Potentially lead a team of device engineers working on this technology depending on leadership track record

Profile

You are best equipped for this role if you have:

- Ph.D. or MS in Electrical engineering or semiconductor technology related disciplines
- At least 5 years of experience in flash technology, design or product development
- Hands-on experience with **flash memory** characterization
- Excellent data analysis and communication skills
- Proven track-record of innovation and creative problem-solving
- Recent/new grad with graduate level research experience in AI, In-Memory-Computing and related fields can also be considered
- Experience developing **MLC** flash operation algorithms is a plus
- Experience with **Automated Test Equipment** (eg. Verigy/Teradyne/Advantest) is a plus
- Experience with **data analysis software** (like Spotfire/R/JMP) is a plus

At a glance

Location:

Job ID: **340720**

Start date: **as soon as possible**

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: **340720**

www.infineon.com/jobs



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.

We make life easier, safer and greener – with technology that achieves more, consumes less and is accessible to everyone. Microelectronics from Infineon is the key to a better future. Efficient use of energy, environmentally-friendly mobility and security in a connected world – we solve some of the most critical challenges that our society faces while taking a conscientious approach to the use of natural resources.

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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