

Change the world. Love your job.



Transistor Reliability Engineering Intern

Become part of TI Analog Technology Development organization that focuses on state-of-the-art semiconductor technology development. We are looking for a highly motivated Master's or PhD student to work under supervision of our experienced technology development team. Your role involves modeling of CMOS transistor degradation mechanisms.

YOUR TASKS

- Characterization and modeling of Negative Bias Temperature Instability (NBTI) in advanced analog technology nodes
- Programming of Keysight B1500 parametric analyzer for ultra-fast NBTI measurements
- Aging model development including NBTI stress, relaxation and duty cycle dependence for circuit simulation
- Compare aging model simulation results with ring oscillators and other product level measurements
- Familiarity with Keysight B1500 programming, MATLAB and SPICE simulations are desirable

YOUR QUALIFICATIONS

- Pursuing Master's or PhD degree in Electrical Engineering with minimum GPA of 3.0/4.0
- Experience in semiconductor device characterization
- Familiarity with Keysight B1500 programming, MATLAB and SPICE simulations are desirable

PREFERRED QUALIFICATIONS & SKILLS

- Knowledge of semiconductor device physics and reliability
- Strong analytical and programming skills (C, MATLAB etc.)
- Strong verbal and written communication skills
- Ability to take the initiative and drive for results
- Strong time management skills that enable on-time project delivery

OUR OFFER

- Join an international work environment where your ideas count and where you can thrive in a diverse culture
- Explore a world of opportunities for your personal and professional development

HOW TO APPLY

Apply online on TI Careers website using the following link:

<https://careers.ti.com/job/14128015/reliability-engineering-intern-atd-dallas-tx/>

As a global semiconductor company operating in 35 countries, Texas Instruments (TI) is first and foremost a reflection of its people. From the Tier who unveiled the first working integrated circuit in 1958 to the more than 30,000 TIers around the world today who design, manufacture and sell analog and embedded processing chips, we are problem-solvers collaborating to change the world through technology.

