

Test Development Engineer (Hsinchu, Taiwan)

Navitas Semiconductor has created the world's first & fastest GaN Power ICs which are enabling a new class of fast charging, miniaturized and energy saving power supplies for everything from mobile chargers and LED lighting to solar inverters and electric vehicles. Navitas was founded in 2013 by a highly experienced management team with the backing from tier 1 venture capitalists with our headquarter locate at El Segundo, CA, USA.

Job Title: Sr. / Staff / Sr. Staff Test Development Engineer

Reports To: Director of Test Development Engineering

Job Location: Hsinchu City, Taiwan (R.O.C.)

Key Responsibilities:

- Responsible for supporting released test solutions at both design center and offshore subcontractor facilities including resolution of test issues, recommending corrective actions, and improve yields and processes.
- Develop new product test solutions for both Final Test and Wafer Probe from research and development up to product release.
- Troubleshooting and implementation of corrective actions on test equipment and wafer probe test systems
- Assist product engineering team in production releases of new products
- Hardware verification and tester debugging and troubleshooting
- Load board and probe card design including schematic entry and PCB layout
- Design and execute electrical and mechanical experiments to improve process yields and measurement repeatability
- Develop software to maximize testing throughput while maintaining product quality
- Implement industry best practices for development and documentation of tester source code

Knowledge, Skill and Competency Requirements

- Strong analytical skills in the evaluation, characterization, and test solution development of power semiconductors (MOSFET's, IGBT's, or Power Modules) or mixed-signal analog devices.
- In-depth experience in source code or test program development using C, C++, C#, or equivalent programming languages
- In-depth experience in semiconductor mixed-signal Automated Test Equipment (ATE) like Accotest, Credence ASL, or Eagle.
- Experience working with GaN or other compound semiconductor devices is strongly desired
- Strong test development skills along with the ability to define hardware/software needs
- Hands-on experience with analytical test equipment such as Semiconductor Analyzers, Signal Generators, Power Supplies, DMMs, Oscilloscopes and Curve Tracers
- Experience with JMP or other statistical tools for data analysis is a plus
- Demonstrated ability to define and communicate plans for completing difficult tasks
- Ability to read, understand, and define circuit schematics and diagrams
- High energy, self-motivated attitude with strong communication skills and an ability to interface effectively with different backgrounds and at every level of the organization
- Experience working with subcontracted manufacturers is a plus
- Strong attention to detail while effectively managing time
- Candidate must have excellent English communication skills

Education and Experience

- BSEE or Equivalent such as Physics with Test Engineering Experience
- 5+ years of experience in test engineering