



## Sr. Test Engineer - Rochester, New York

IDEX America Inc. and its parent company IDEX ASA, a leading developer of fingerprint sensor devices, are building an ASIC Development site in Rochester, NY and are seeking experienced Sr. Test Engineers to help develop and test state-of-the-art mixed-signal fingerprint sensing devices. As Sr. Test Engineer, you will work closely with colleagues in the ASIC Development organization as well as with other teams within the IDEX R&D, System Engineering and Sensor Development teams to deliver high-volume, mixed-signal products based on cutting-edge sensor technologies into Mobile, Smart Card and IoT markets. This position will be a pivotal role for IDEX to guide corporate direction on characterization and production test strategies, work with suppliers to select test platforms and equipment, and work closely with the ASIC Design Team to develop/implement ASIC characterization and production test plans. You will also collaborate with other product teams to root cause issues that result from debug, characterization and margin analysis and the position will also allow for the opportunity to provide test enhancement feedback for future designs.

### Tasks and responsibilities:

- Develop Mixed-Signal ASIC Test Strategy in collaboration with management and team members
- Work with product-level teams to partition test strategy between wafer-level and product level test environments
- Create production and characterization test plans
- Develop production test hardware for new products, including load boards and probe cards
- Design PCBs to interface ATE resources with the devices under test (DUT) and develop PCB circuitry to augment ATE capabilities
- Develop test solution on automated test equipment (ATE) to validate, characterize, and production-test fingerprint sensing devices
- Work with design engineers to implement required test modes in the product
- Work with design engineers to integrate design for test (DFT) features into new designs.
- Mentor less experienced engineers, review their work to ensure quality is being met, and make suggestions for improvements.
- Interface with internal and external vendors to develop test schematics, optimize test board layout, component selection and manufacture of all necessary test hardware
- Validate test systems to ensure test coverage, correlation to bench measurements, and measurement repeatability
- Coordinate with remote manufacturing sites to release new test systems to production
- Provide production sustaining support to reduce test time, improve measurement stability and help debug yield issues
- Ensure timely and successful delivery of projects

### Required Experience:

- Must possess an in-depth knowledge of mixed-signal device performance parameters and test methods.
- Working knowledge of basic circuits – R-C filters, opamp circuits, etc.
- 10 or more years of experience in developing ATE test solutions for mixed-signal semiconductor ICs
- Solid hardware design and trouble-shooting skills
- Strong programming background (C, C++, Perl, etc.)
- Ability to work within a multi-discipline team from architecture to system prototyping
- Creativity and analysis skills with ability to research and devise new tests
- Excellent problem solving and debugging skills

### Desirable Experience:

- Experience with high volume, consumer, capacitive touch-related products
- Experience on variety of mixed-signal testers
- Excellent written and communication skills
- Ability to create detailed written test specifications of complex circuits and systems
- Detail oriented and self-starter, ability to perform assignments with minimal supervision



- Knowledge of analog and mixed-signal ASIC development processes and techniques
- Ability to work effectively within a geographically distributed, cross-functional team organization
- Ability to effectively transfer knowledge within the organization

**Education:**

- BS / MS in Electrical, Computer or Microelectronics Engineering

**Personal capabilities:**

- Ambitious; able to work independently; self-assured and outgoing; dependable and able to deliver
- Creative, pragmatic and easy to work with
- Enjoying responsibility for a diverse portfolio of projects and assignments
- Excellent communication skills

**Potential:**

IDEX is a pioneering company in fingerprint sensing technology. We are technically advanced in our field. The organization is small and compact, and we have informal and stimulating work environment. There is a spectrum of challenges and you will have an opportunity to grow with us. You will have extensive contact with customers, suppliers and management. We offer competitive compensation and terms and a share-based incentive scheme.

**Work place:**

Full-time position in Rochester, New York

**Travel activity:**

Occasional domestic and international travel, depending on projects

**IDEX ASA:**

IDEX ASA specializes in fingerprint imaging and recognition technology. IDEX's vision is to ensure individuals a safe, secure, and user-friendly use of personal ID.

IDEX has developed the award-winning SmartFinger® technology platform based on the company's core intellectual property, including the patented fingerprint imaging principle, sensing scheme and chip design. SmartFinger solutions can be integrated into a variety of embedded applications such as mobile phones, Smartcards, payment and ID cards, and IoT devices.

**Web site:**

[www.idex.no](http://www.idex.no)

**Contact:**

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