Applications Development Scientist (AFM expert)

Job description

PrimeNano is an early stage, privately held analytical instrument company, based in the center of Silicon Valley. We have commercialized a patented microwave impedance imaging technology developed at Stanford University. PrimeNano’s ScanWave™ product, introduced in 2014, enables imaging of electrical properties of materials (conductivity and permittivity) at sub-micron dimensions, using atomic force microscopes (AFMs).

As one of the fastest growing instruments companies we have released five new products in 2020/2021.

To support and expand our sales activities, we are looking for an Applications Scientist who will demonstrate and install our products.

THE ROLE

- Collect data on customer samples and write demo reports.
- Perform live demos for potential customers.
- Assist in advanced applications development.
- Support R&D projects and product development.
- Attend conferences and give technical presentations and seminars internationally.

THE CANDIDATE

Required Skills and Attributes - You should meet all these criteria:

- **Be skilled at atomic force microscopy, including selection of imaging modes and cantilevers/probes.** Experience with one or more electrical measurement modes for AFM, such as SCM, cAFM, ORCA, SSRM, is **essential**.
- Have research experience in a materials related field, e.g.: physics, materials science, physical chemistry, chemical engineering, or electrical engineering.
- Have experience supporting or maintaining customer relationships.
- Be a strong, hands-on experimentalist with good technical skills.
- Well organized, self-starter and comfortable working in a small organization.
- Ability to handle multiple projects / meet deadlines.
- Have excellent English communication skills, both written and oral.
- Have and maintain travel documentation for international travel.
Desired Skills - You should meet a significant number of these criteria:

- Basic understanding of semiconductor materials and semiconductor industry failure analysis.
- Experience with microwave frequency instrumentation and measurement.
- Experience with the operation of low temperature (liquid He) or UHV apparatus is a plus.
- Advanced degree: a PhD is desired, a masters with appropriate experience will be considered.
- Proficiency with one or more of the following applications/languages (or similar): imageJ, Matlab, C, igor, LabView, etc.
- Proficiency with advanced test equipment and instrumentation (e.g. network analyzer, digital oscilloscope, spectrum analyzer, lock-in amplifiers, etc.)

Apply here: [https://primenanoinc.com/careers.html](https://primenanoinc.com/careers.html)