

R&D Process Engineer

- Durham (RTP), North Carolina, USA
- Full-time

Company Description

ImagineOptix is a fast growing futuristic company that is changing the world of optics. We are the pioneers of patterned liquid crystal optics and the world leader in innovative solutions for optical and photonics challenges across a wide range of industries. Our mission is to inspire transformative photonic systems by making impossible optics possible. We accomplish this by applying liquid crystal polymer films to manipulate the properties of light, making products smaller, lighter, more efficient and more capable of solving tomorrow's challenges. Our world-class manufacturing facility brings these industry leading optics to life. We are growing quickly and seeking those who are interested in shaping the way people view and interact with the technology of the future.

Job Description

The R&D Process Engineer will play a critical role in product development, quality testing and manufacturing scale up activities at our world-class manufacturing facility. This position will be responsible for working with technical team members to operate state-of-the-art thin-film coating and holographic patterning equipment, conduct experiments to determine optimal processing conditions, and perform standard optical characterization. This individual will work alongside both Research Scientists and Production Operators.

The ideal candidate will have experience in with fabrication and quality testing equipment, protocols and process improvement. Experience in the following areas will be beneficial but is not required: liquid crystal processing and coating, optical lithography, liquid/solid mixture preparation, lamination, dicing, and the physical and optical characterization of films. This individual should have the ability to develop, improve and follow standard work instructions and recipes. The candidate should have experience in all of these aspects of the position, be able to work meticulously, independently and be prompt and responsive in delivery of work product.

We work at a fast pace and require everyone to be highly self-motivated and independent. We are seeking a flexible thinker. Someone able to problem-solve outside of their respective technical area.

Responsibilities

- Use thin-film coating tools to prototype novel optical films, process liquids and support quality testing in support of developing production processes.
- Enable improved formulation process for new variants of products, with a focus on material selection, processing and use.
- Support continuous improvement activities through detailed data analysis and root cause problem analysis.
- Support process improvement through detailed data collection enabling the use of tools including statistical process control, process mapping, control charts, design of experiments, Lean methodology and process capability studies to achieve business objectives.

- Prioritizes safety at all times.

Key Qualifications

- Prior liquid crystal fabrication experience; this may or may not include experience in the semiconductor or optics/photonics industry, in a lab or manufacturing setting.
- Ability to translate product attributes and outcomes to processing conditions and equipment parameters.
- Experience working within quality management systems and ISO 9001 environments.
- Background in statistical analysis and data driven decision making. Capable of executing test plans and capturing a robust set of accurate data.
- Able to work in clean room for extended period.

Other Qualifications

Ability to work well under aggressive deadlines. Proven ability to effectively work as a member of a team. Strong interpersonal, organizational, and communication skills are essential. Must be able to establish strong working relationships across the organization. Must be articulate and capable of producing written work that concisely address the matters assigned.

Education & Experience

- At least Bachelor of Science degree in Engineering, Physics, or related field.
- At least 5 years of hands-on experience with standard cleanroom processing equipment (optical or semiconductor);