



Enabling the GHz Generation

Photolithography Process Engineer

Photolithography Process Engineer must have a successful track record of delivering leading-edge process capability, yield, cost, and manufacturability. Must be able to develop and optimize standard production processes and projects related to photolithography requirements, standard operating procedures, equipment operation and maintenance, quality, statistical process control, and document control. Must be able to meet customer requirements through cross-functional/cross-company teams and operational support as required; improve product quality and delivery through evaluating existing and new processes and production equipment; and develop engineering improvements to increase quality, improve process capability, reduce cost, and improve overall process and tool reliability. This is a pathfinding position.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Design and optimize lithography overlay processes for leading edge glass-ceramic technology
- Defining and establishing flow, procedures, and equipment configuration
- Select and develop material and equipment for the process to meet quality, reliability, cost, yield, productivity, and manufacturability requirements.
- Conduct process, equipment and material development projects with equipment and material vendors
- Design, execute, and analyze experiments necessary to meet engineering specifications
- Work effectively with vendors to identify shortcomings, propose, and evaluate hardware modifications to mitigate issues
- Drive improvements on quality, reliability, cost, yield, process stability/capability, productivity, and safety/ergonomic over variables such as material, method, equipment, environment, and operating personnel
- Develop solutions to problems utilizing formal education, statistical knowledge, and problem-solving tools
- Establish process control systems
- Train production/receiving process engineers in high volume environment
- Transfer processes to high-volume manufacturing and providing support in new factory startup.
- Domestic and International travel, as necessary to support job responsibilities
- Identify potential intellectual properties (IP) opportunities

BASIC QUALIFICATIONS, EXPERIENCE, SKILLS AND EDUCATION REQUIRED

- PhD degree (or MS) in Electrical Engineering, Chemical Engineering, Material Science, Physics, Chemistry, or an equivalent field.
- 5+ years of experience in semiconductor process and/or equipment development.
- In-depth understanding of photolithography and specifically overly processes
- Must have technical expertise within semiconductor processing engineering preferably in Memory process development for leading edge technology
- Demonstrate experience with technical problem-solving skills, with multitasking
- Demonstrated experience working with external and internal partners, including leading edge semiconductor equipment and/or materials manufacturers.
- A fast learner, able to adapt to the culture and the technology
- Must be flexible in accommodating changing priorities and working hours to support business needs

EMPLOYMENT CATEGORY

- Regular full-time

LOCATION OF EMPLOYMENT

- Albuquerque, NM

Send CV via email to careers@3DGSinc.com