



YES (Yield Engineering Systems, Inc.) is a leading manufacturer of high-tech, cost-effective equipment for transforming surfaces, materials, and interfaces at the nanoscale. From startups to the Fortune 50, our customers rely on YES solutions to unleash products that change lives -- from cellphones and IoT devices, to AI and virtual reality, to diagnostic tests for COVID.

Our industry-leading vacuum cure ovens, chemical vapor deposition (CVD) systems, and plasma etching tools are driving innovation in a wide range of exciting and growing markets. We look forward to talking with smart, energetic, team-oriented people who can grow with us. We provide competitive salary and benefits (including employee stock ownership), a beautiful light-filled new facility in a central location, and some of the best co-workers you'll find anywhere. If this appeals to you, please read on!

Title: Process Technologist

Location: Fremont, CA

We are looking for a Process Technologist to support the research and development current and future products focusing on Life Sciences/Displays/Biotech areas. The primary responsibilities of the role include, but are not limited to the following:

Responsibilities include but are not limited to:

- Research, design and development of process solutions, including research into process development and optimization of thin film coating/equipment for microfluidic devices, peptides adhesion, genome sequencing devices etc.
- Strong Life Sciences and Biotech knowledge to apply and characterize processes for Life Sciences customers and devices.
- Contribute and run process development of new processes, hardware, and controls to develop new process, achieve improved film and productivity performance-specifically for polyimide cure, thin film coat and PR strip/descum.
- Research, design, development and implementation of polymer cure, monolayer coat and PR strip/descum chambers.
- Characterize and document processes and films using various characterization methods including SEM, TEM, XPS, SIMS, WCA, etc.
- Perform DOE of gas flow, operating pressures, gas phase chemistries and silanes to develop process.
- Participate in the design, planning, setup and configuration of testbeds with integrated electronics modules, coating systems and high vacuum equipment.
- Perform laboratory, operational, or diagnostic techniques or test equipment to characterize equipment, processes, systems, or subsystems.
- Write test protocols, perform tests to fully characterize new equipment or processes utilizing DOE methodology or other statistically sound methods, then write completion reports. Apply statistical methods to the design of experiments.

- Identify, analyze, and provide solutions and alternate approaches to complex problems using independent creativity and judgment.
- Present and publish patents, papers and white papers about technical analysis and new invention/discovery.

Qualifications

- MS/PhD in Biology, Biology related areas, Chemistry, Materials engineering, Electrical engineering or related technical field.
- 10+ years in semiconductor or Life Sciences related process engineering experience
- Strong knowledge of Microfluidic devices, DNA/RNA processing, Genome Sequencing, COVID Diagnostics, other biotech related field.
- Excellent knowledge and prediction of physical principles, laws, their interrelationships, and applications to understanding chemical reactions, polymerization, surface chemistry fluid, materials, thin film processes, and biological structures.
- Extensive experience designing and developing technology and chemical process solutions, such as monolayer coatings, optical coatings and polymer curing.
- Experience with data acquisition systems, and development and implementation of vacuum systems, plasma chambers and vapor phase deposition systems.
- Experience planning, coordinating and executing R & D tests of process hardware, with clear formal documentation of results.
- Working understanding of quality statistical models and metrics (confidence/reliability intervals, DOE, regression/trending, SPC, acceptance plans).
- Strong problem-solving skills and willingness to learn new skills, new technologies, and develop solutions based on project needs
- Ability to complete work on time consistently and with minimal guidance
- Proven oral and written communication skills
- Ability to function well in a diverse, team-focused, fast-paced environment with changing requirements.

Compensation

YES offers a stimulating and fun working environment, competitive salaries, healthcare benefits & company stock options.

Additional Information

- Applicants must be currently authorized to work in the United States on a full-time basis.
- YES is an equal opportunity employer and values diversity. All employment is decided on the basis of qualifications, merit and business need.

Come find out why YES is such a great place to work. Apply today!