



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

As a preferred provider of wet and dry process technology, 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, 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

Responsibilities include but are not limited to:

- Support the research and development of current and future products focusing on the Life Sciences/Display/Biotech areas.
- Research, design, and develop process solutions, including research into process development and optimization of thin film coating/equipment for microfluidic devices, peptides adhesion, genome sequencing devices, etc.
- Draw upon 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, develop, and implement 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 on 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 inventions/discoveries.

Qualifications

- MS/PhD in Biology, Biology-related areas, Chemistry, Materials Engineering, Electrical Engineering, or related technical field
- 10+ years of 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, fluids, 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 & benefits, and company stock.

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!