



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!

Job Title: Senior Systems Engineer (Wet Products)

Location: Fremont, CA or Valencia, CA

Key Responsibilities

- Collaborate with electrical, mechanical, and software engineers to define design requirements, generate product specifications, and develop electrical subsystems.
- Create and document IO maps, interlock diagrams, gas delivery matrices, and P&IDs.
- Program and debug various controls for motion, pressure control, gas flow, and thermal control.
- Work with various PLC and motion control system architectures. Define motion components and set up initial motion control systems (tuning, parameter definition, overall operation, and error recovery).
- Solve challenging engineering problems by characterizing components, designing/prototyping control systems, circuits, schematics, etc.
- Research and provide solutions to complex design challenges.
- Troubleshoot a variety of complex electrical & controls problems in engineering and production environments.
- Define, coordinate, perform, and document engineering tests.
- Generate technical documentation for product release.
- Develop hardware from conception through prototyping.
- Design, build, and measure prototype solutions that demonstrate proof-of-concept and early technical feasibility.
- Characterize, test, and verify circuits and embedded systems.
- Participate in full cycles of product design, prototyping, and mass production.
- Ensure all safety critical interlocks are correctly implemented and functional.
- Perform failure mode analysis, root-cause diagnosis, and technical problem-solving.
- Program and tune various third-party controls (motion, temperature, pressure).

Qualifications

- Minimum of 7+ years' experience in the wet process semiconductor industry (other semiconductor industry experience will be considered)
- Experience with wet processes, liquid thermal control, pumps, and safety systems
- Broad background in systems engineering (electrical, controls, software, automation, vacuum & gas delivery systems)
- Experience with chemical delivery, vacuum, and automation systems
- Experience with robots and wafer handling systems & components
- Experience in industrial control and communication (Ethernet, Modbus, Powerlink)
- Familiarity with safety interlocks and general industry safety requirements (SEMI S2, UL508, etc.)
- Sound technical knowledge of electrical and electromechanical concepts and applications (components, schematics, electrical system, cable & harness)
- Collaborative problem solver, with excellent organizational and communication skills
- Proficiency in AutoCAD, SolidWorks
- Ability to research and implement new technologies with minimal support
- Experience with engineering change management (ECR/ECO) process using PLM/ERP systems

Compensation

- The base salary range for this position is \$95,000 - \$125,000 per year; higher compensation may be available depending on advanced skills and/or specific experience.
- YES offers a performance-based annual bonus and a competitive benefits package, which includes a 401(k) match, medical, dental, vision and life insurance, flexible PTO, and company stock.

Additional Information

- COVID vaccine, background check, and pre-employment drug screen required.
- 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.
- YES prohibits discrimination and harassment of any type without regard to race, color, religion, age, sex, national origin, disability status, genetics, protected veteran status, sexual orientation, gender identity or expression, or any other characteristic protected by federal, state or local laws.

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