



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 technologies and capital equipment products 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!

Job Title: Sr. Electrical & Controls Engineer

Location: Fremont CA

Key Responsibilities

- Select electrical components, controls interface, vacuum systems sizing and components.
- Design and document chemical delivery controls (flow control, interlocks).
- Program and tune various third-party controls (motion, temperature, pressure).
- Collaborate with system, mechanical, and software engineers to define design requirements, generate product specifications, and develop electrical subsystems.
- Define, coordinate, perform, and document engineering tests.
- Modify or design electrical assemblies, layouts/schematics, and/or detailed drawings/specifications, scope.
- Troubleshoot a variety of complex electrical problems in engineering and production environments.
- Generate technical documentation for product release.
- Deliver full engineering package, and support manufacturing to ensure a smooth transition into mass production.
- Solve challenging engineering problems by characterizing components, designing/prototyping control systems, circuits, schematics, etc.

Required Qualifications

- BS or MS degree in Electrical Engineering with 7+ years of experience in the semiconductor industry.
- Experience with distributed controls, chemical delivery, and vacuum systems.
- Thorough knowledge of design standards including UL/CSA/FCC, S2/S8/F47/CE.
- Team-oriented problem solver, with excellent organizational and communication skills.
- Proficiency and experience in AutoCAD, SolidWorks Electrical or similar packages.
- Ability to research and implement new technologies with minimal support.
- Familiarity with safety interlocks and general requirements.

- Broad background in systems engineering (electrical, controls, software, automation, gas delivery systems).
- Ability to research and implement new technologies with minimal support.
- Control systems experience with PLC systems and various communications technologies (Ethernet, PowerLink, EtherCat, Mod-Bus, RS-485).
- Gas delivery controls design and documentation (flow control, interlocks, safe vs. hazardous).

Preferred Qualifications

- Previous experience in semiconductor capital equipment industry preferred.
- Experience with various systems (chemical delivery, vacuum systems, pressure control, distributed IO).

Compensation

YES offers a stimulating and fun working environment, competitive salaries, healthcare benefits & 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!